



**APPLICATION FOR VENTING OR FLARING
OF GAS OTHER THAN CASINGHEAD GAS (K.A.R. 82-3-314)**

Venting / Flaring
ID # _____

Operator Information:

OPERATOR: License # _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____

Well Information:

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
County: _____
Lease Name: _____ Well #: _____

A. Formation/Interval and estimated BTU Value of gas to be vented:

Formation: _____ Interval: _____ Estimated BTU Value: _____

B. Expected Maximum Gas Vented Volume:

Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____

C. Distance to the nearest pipeline or gathering facility: _____

Include the following attachments for all applications:

- 1. Wireline log of subject well, if available. If not available attach, a written explanation why not available.
- 2. Completed Well Completion form for the subject well, Form ACO-1.
- 3. Method of measuring vented / flared gas.
- 4. Written explanation of why venting or flaring is necessary.
- 5. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

Include the following for coalbed natural gas venting applications only:

- 6. Plat Map including location of subject well, all other wells on subject lease and all wells on offsetting leases. Include the names and address of offsetting operators.
- 7. Completed Affidavit for Venting of Coalbed Natural Gas, Form CG-4.

AFFIDAVIT

I am the affiant and I hereby certify that to the best of my current information, knowledge and personal belief, this request to vent/flare natural gas is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

KCC Office Use Only

Denied Approved Permit Expires: _____
15-Day Periods Ends: _____
Approved By: _____ Date: _____

Submitted Electronically

Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of the application.



Well Name:

County, State:

Date:

Operator:
Operator:
Company Man:

email:
email:
email:

Phone #:
Phone #:
Phone #:

Accum BB Gas	611	Cumulative Gas:	0
Prev Acc BB Gas	611	Previous Cum Gas:	0
Daily BB Gas	0	Daily Gas Sales:	0
Start LTR	25,584	BOPD:	0
OIL SOLD	177	CBO:	0
Cumulative Flair		BWPD:	0
Previous Cum Flair		CBLWR:	0
Daily Gas Flair		BLWLTR:	0
		WATER PUMP TOTAL	0

TIME	TBG	CSG	INJ PRESS	CHOKE	Wtr/HO	STATIC	CUMU HR	MCFD	INJ GAS	BB Gas	BOPH	BOPD	CBO	BWPH	BWPD	CBLWR	BLWLTR	Comments
Begin												0	0		0	0	0	
6:00am												0	0		0	0	0	
7:00am												0	0		0	0	0	
8:00am												0	0		0	0	0	
9:00am												0	0		0	0	0	
10:00am												0	0		0	0	0	
11:00am												0	0		0	0	0	
12:00pm												0	0		0	0	0	
1:00pm												0	0		0	0	0	
2:00pm												0	0		0	0	0	
3:00pm												0	0		0	0	0	
4:00pm												0	0		0	0	0	
5:00pm												0	0		0	0	0	
6:00pm												0	0		0	0	0	
7:00pm												0	0		0	0	0	
8:00pm												0	0		0	0	0	
9:00pm												0	0		0	0	0	
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11:00pm												0	0		0	0	0	
12:00am												0	0		0	0	0	
1:00am												0	0		0	0	0	
2:00am												0	0		0	0	0	
3:00am												0	0		0	0	0	
4:00am												0	0		0	0	0	
5:00am												0	0		0	0	0	



Proposed

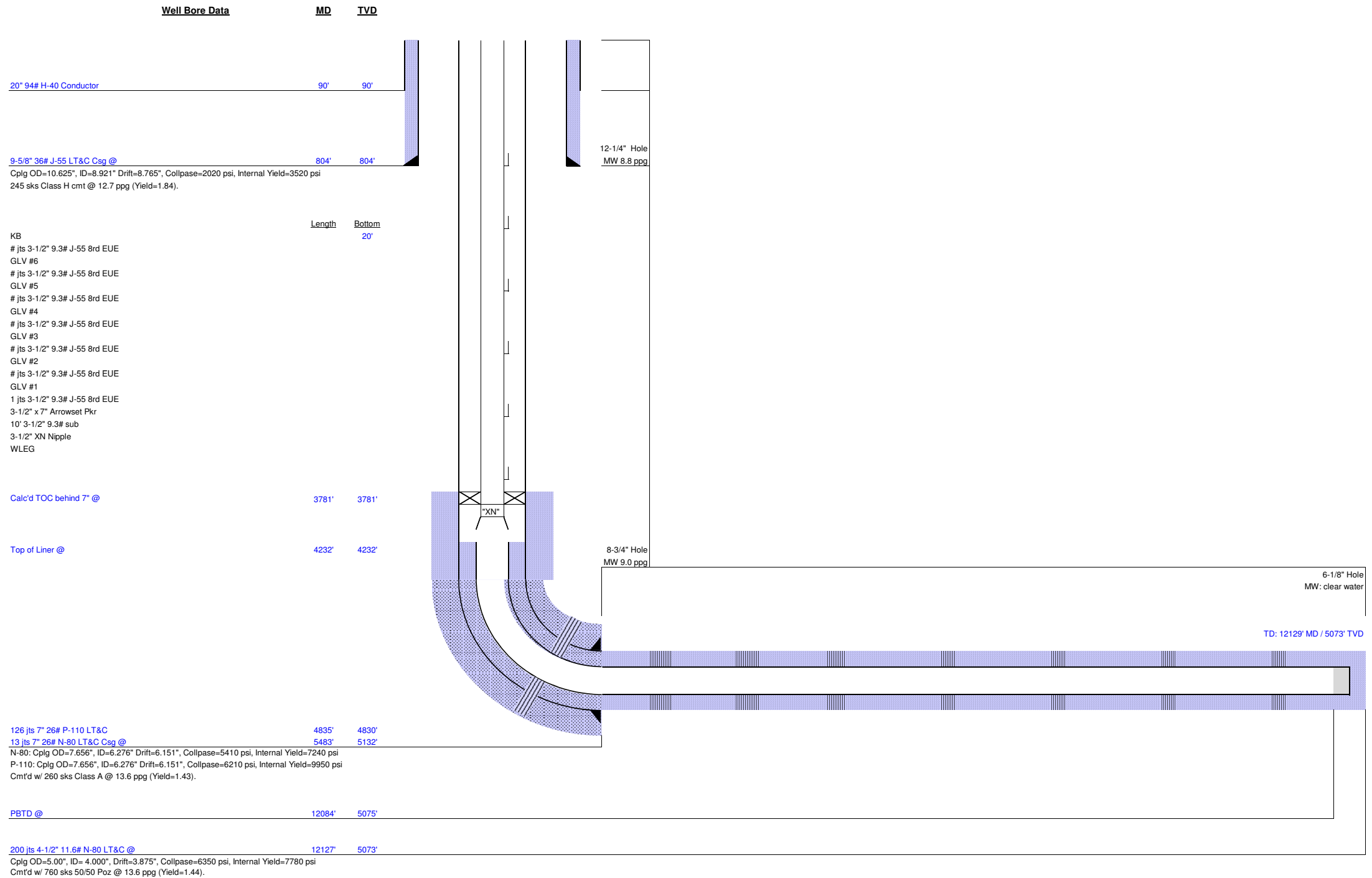
Spud: 3/22/2011

Field Six Moons
County Comanche
State Kansas
Well **Kerstetter 1-25H**
Location SEC 25, TWP 31S, RGE 20W
KB 2020'
GL 2000'

Wellbore Schematic

1503-321-58101
API No.

Original Completion
 Current
 Proposed



Summary Production Report

Lease Name:	JUDITH		
Lease Number:	MULTIPLE	Cum Oil:	24,466
Operator Name:	AMERICAN WARRIOR INCORPOR	Cum Gas:	101,584
State:	KANSAS	Cum Water:	
County:	COMANCHE	First Production Date:	MAY 2001
Field:	PIPELINE NORTHWEST	Last Production Date:	DEC 2010
Production ID:	SUM002223527		
Reservoir Name:	MISSISSIPPIAN		
Prod Zone:	MISSISSIPPIAN		
Basin Name:	ANADARKO BASIN		
Status:	ACTIVE MULTIPLE		

Annual Production	(10 years)		
Year	Oil BBLs	Gas MCF	Water BBLs

Beginning			
Cum:			
2001	2,741	16,448	
2002	3,673	9,702	
2003	2,673	9,062	
2004	2,862	11,457	
2005	2,533	10,223	
2006	2,231	9,273	
2007	2,212	9,007	
2008	1,914	8,621	
2009	1,908	9,656	
2010	1,719	8,135	
Totals:	24,466	101,584	

Monthly Production						
Date	Oil	Gas	Water	# of	Days	
MO/YR	BBLs	MCF	BBLs	Wells	on	

MAY 2001	266			1		
JUN 2001	139			1		
JUL 2001	559	3,210		2		
AUG 2001	464	5,793		2		
SEP 2001	488	4,502		2		
OCT 2001	330	1,240		2		
NOV 2001	166	777		2		
DEC 2001	329	926		2		
Totals:						
2001	2,741	16,448				
JAN 2002	315	1,046		2		
FEB 2002	476	1,310		2		

MAR 2002	319	1,063	2
APR 2002	332	808	2
MAY 2002	319	617	2
JUN 2002	289	676	2
JUL 2002	163	729	2
AUG 2002	317	724	2
SEP 2002	324	740	2
OCT 2002	165	747	2
NOV 2002	328	687	2
DEC 2002	326	555	2
Totals:			
2002	<u>3,673</u>	<u>9,702</u>	
JAN 2003	132	720	2
FEB 2003	296	515	2
MAR 2003	163	693	2
APR 2003	327	800	2
MAY 2003	157	791	2
JUN 2003	325	747	2
JUL 2003	161	762	2
AUG 2003	159	1,044	2
SEP 2003	323	801	2
OCT 2003	164	856	2
NOV 2003	309	604	2
DEC 2003	157	729	2
Totals:			
2003	<u>2,673</u>	<u>9,062</u>	
JAN 2004	162	744	2
FEB 2004	297	821	2
MAR 2004	306	792	2
APR 2004	160	923	2
MAY 2004	325	1,141	2
JUN 2004	164	1,014	2
JUL 2004	324	1,034	2
AUG 2004	160	999	2
SEP 2004	323	1,068	2
OCT 2004	164	896	2
NOV 2004	160	1,065	2
DEC 2004	317	960	2
Totals:			
2004	<u>2,862</u>	<u>11,457</u>	
JAN 2005	163	876	2
FEB 2005	160	805	2
MAR 2005	325	1,030	2
APR 2005	165	916	2
MAY 2005	100	900	2
JUN 2005	319	845	2
JUL 2005	159	874	2
AUG 2005	325	863	2
SEP 2005	165	793	2
OCT 2005	161	838	2
NOV 2005	330	717	2
DEC 2005	161	766	2
Totals:			
2005	<u>2,533</u>	<u>10,223</u>	

JAN 2006	138	832	2
FEB 2006	166	744	2
MAR 2006	326	885	2
APR 2006	156	718	2
MAY 2006	166	834	2
JUN 2006	162	811	2
JUL 2006	319	852	2
AUG 2006	161	881	2
SEP 2006		733	2
OCT 2006	309	833	2
NOV 2006	162	532	2
DEC 2006	166	618	2
Totals:			
2006	<u>2,231</u>	<u>9,273</u>	
JAN 2007	157	857	2
FEB 2007	155	725	2
MAR 2007	326	874	2
APR 2007	157	655	2
MAY 2007	163	785	2
JUN 2007	160	791	2
JUL 2007	314	754	2
AUG 2007	141	790	2
SEP 2007	159	752	2
OCT 2007	319	755	2
NOV 2007	161	716	2
DEC 2007		553	1
Totals:			
2007	<u>2,212</u>	<u>9,007</u>	
JAN 2008	319	632	2
FEB 2008	159	757	2
MAR 2008	141	681	2
APR 2008	162	773	2
MAY 2008	164	804	2
JUN 2008	164	672	2
JUL 2008	159	738	2
AUG 2008	162	758	2
SEP 2008	159	753	2
OCT 2008	163	414	2
NOV 2008	162	786	2
DEC 2008		853	1
Totals:			
2008	<u>1,914</u>	<u>8,621</u>	
JAN 2009		809	2
FEB 2009	462	658	2
MAR 2009		700	2
APR 2009	326	760	2
MAY 2009	166	960	2
JUN 2009		821	2
JUL 2009	318	865	2
AUG 2009		842	2
SEP 2009	155	797	2
OCT 2009	324	850	2
NOV 2009		847	2

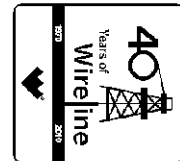
DEC 2009	157	747	2
Totals:			
2009	<u>1,908</u>	<u>9,656</u>	
JAN 2010	154	710	2
FEB 2010	160	585	2
MAR 2010	153	737	2
APR 2010	164	625	2
MAY 2010	158	659	2
JUN 2010	162	543	2
JUL 2010		753	2
AUG 2010	142	650	2
SEP 2010	147	574	2
OCT 2010	162	737	2
NOV 2010	163	746	2
DEC 2010	154	816	2
Totals:			
2010	<u>1,719</u>	<u>8,135</u>	



Weatherford[®]

**COMPACT WELL SHUTTLE
ARRAY INDUCTION
LOG**

COMPANY SANDRIDGE ENERGY
WELL KERSTETTER 1-25H
FIELD SIX MOONS
PROVINCE/COUNTY COMANCHE
COUNTRY/STATE USA / KANSAS
LOCATION S2 SW4 SW4
330' FSL & 660' FWL



SEC 25 TWP 31S RGE 20W Other Services MPD/MDN
API Number 15-033-21581 Permit Number
Permanent Datum GL, Elevation 2000 feet
Log Measured From KB @ 20 FEET above Permanent Datum
Drilling Measured From KB

Elevations: KB 2020.00
DF 2018.00
GL 2000.00

Date	14-APR-2011
Run Number	ONE
Depth Driller	12129.00 feet
Depth Logger	12112.00 feet
First Reading	12109.00 feet
Last Reading	5450.00 feet
Casing Driller	5483.00 feet
Casing Logger	5483.00 feet
Bit Size	6.125 inches
Hole Fluid Type	WATER
Density / Viscosity	8.40 lb/USg 27.00 CP
PH / Fluid Loss	10.50
Sample Source	FLOWLINE
Rm @ Measured Temp	2.0 @ 60.0 ohm-m
Rmf @ Measured Temp	1.60 @ 60.0 ohm-m
Rmc @ Measured Temp	2.40 @ 60.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.93 @ 137.0 ohm-m
Time Since Circulation	12 HOURS
Max Recorded Temp	137.00 deg F
Equipment Name	COMPACT
Equipment / Base	18077 OKC
Recorded By	GUTHMUELLER
Witnessed By	K GENTRY

BOREHOLE RECORD

Last Edited: 14-APR-2011 02:05

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	804.00
8.750	804.00	5483.00
6.125	5483.00	12129.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURF	9.625	0.00	804.00	36.00
INTER	7.000	0.00	5483.00	26.00

REMARKS

WLS SOFTWARE VERSION 11.02.3186 USED
 TOOLS RUN ON DRILLPIPE USING COMPACT WELL SHUTTLE DEPLOYMENT TECHNIQUE
 DEPTH MEASURED USING ADVANTAGE RIG DEPTH SYSTEM CORRECTED TO PIPE STRAP.
 TOOLS DEPLOYED WITH MULE SHOE SITTING AT 12031 FT.
 AFTER DEPLOYMENT LOGGING TOOL WAS AT 12113 FT.
 4.5 INCH PRODUCTION CASING WAS USED TO CALCULATE ANNULAR HOLE VOLUMES
 OPERATORS: D TURNER, M FISHER
 S.O. # 3529776
 RIG: LARIAT 45

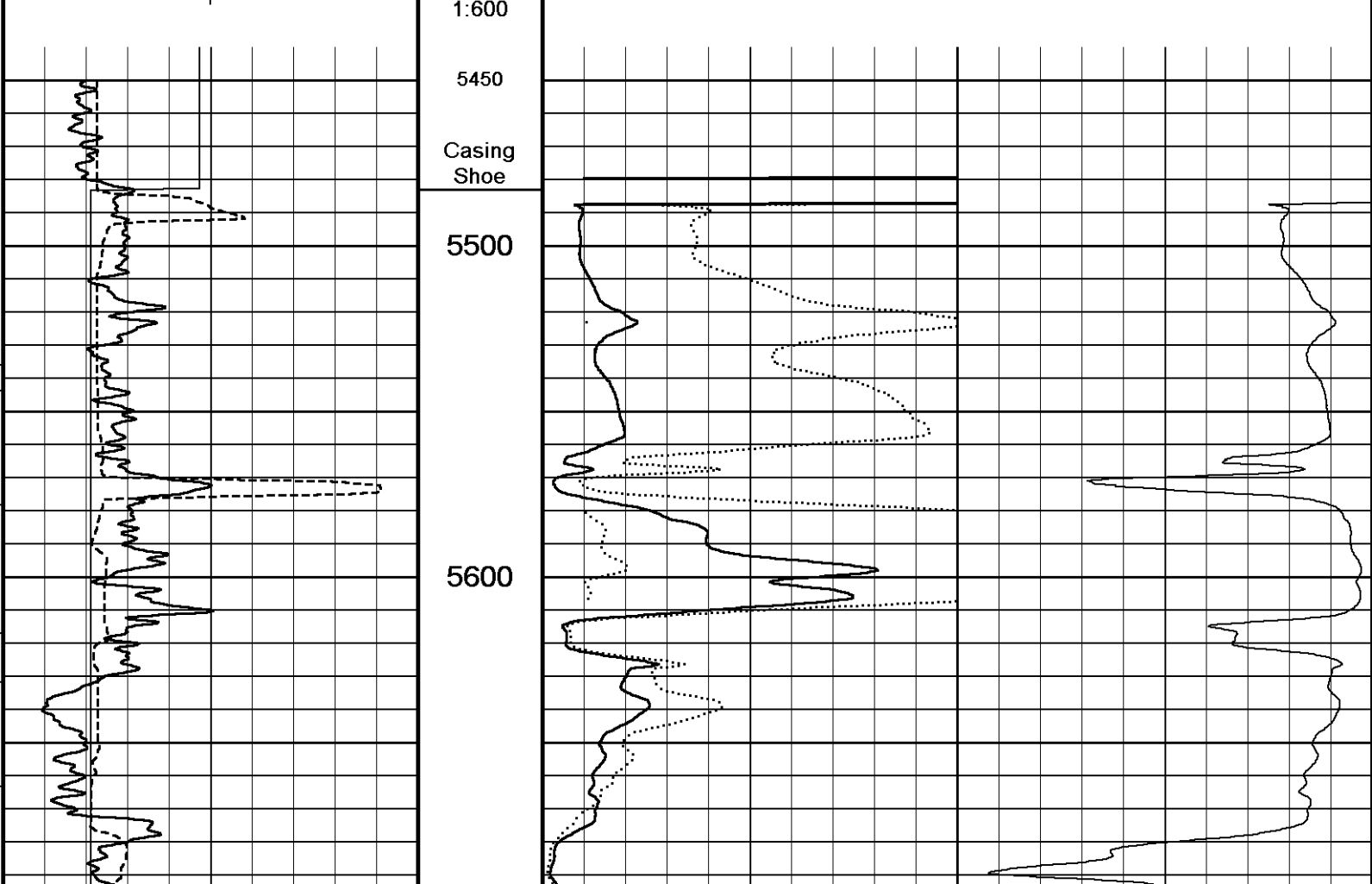
All interpretations are opinions based on electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or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

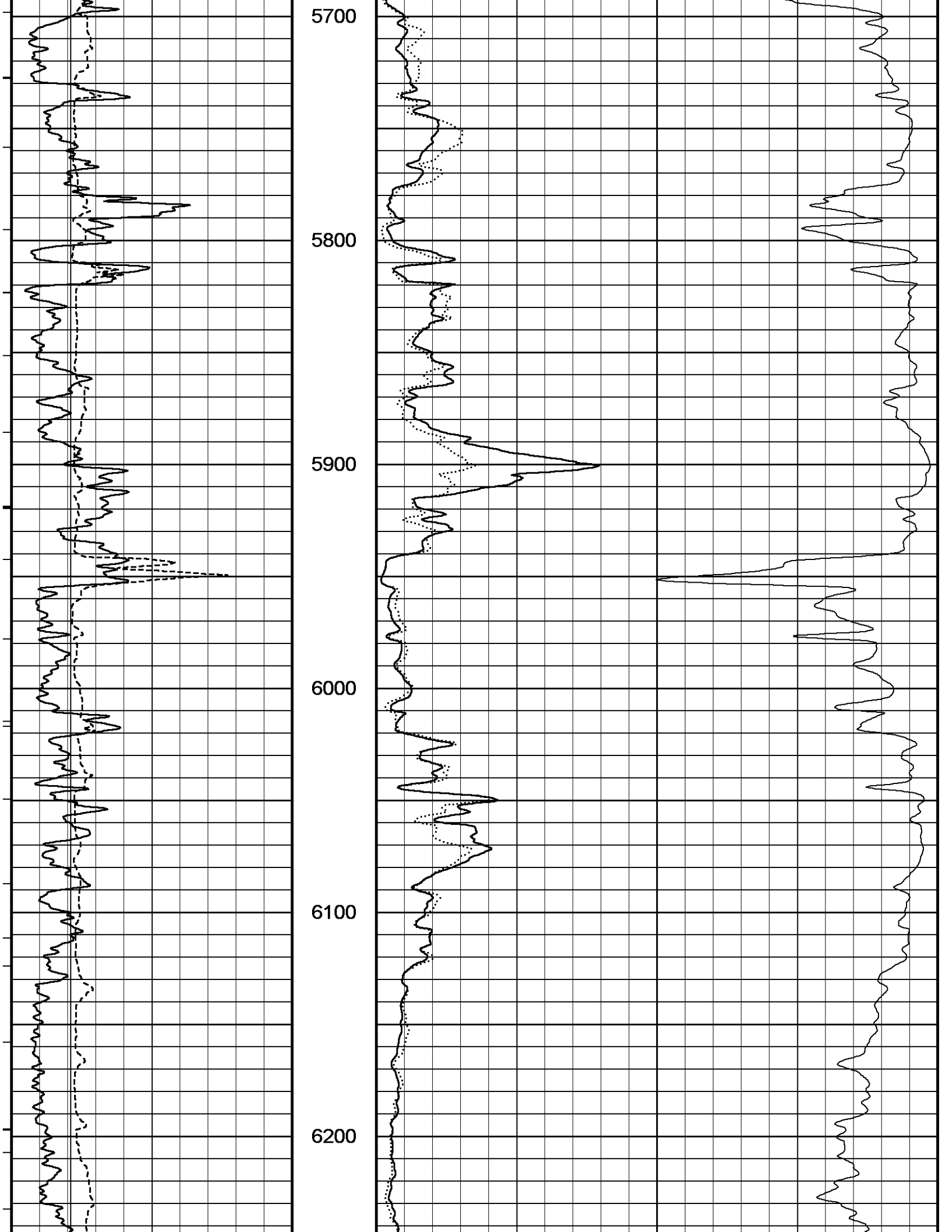
2 INCH MAIN LOG

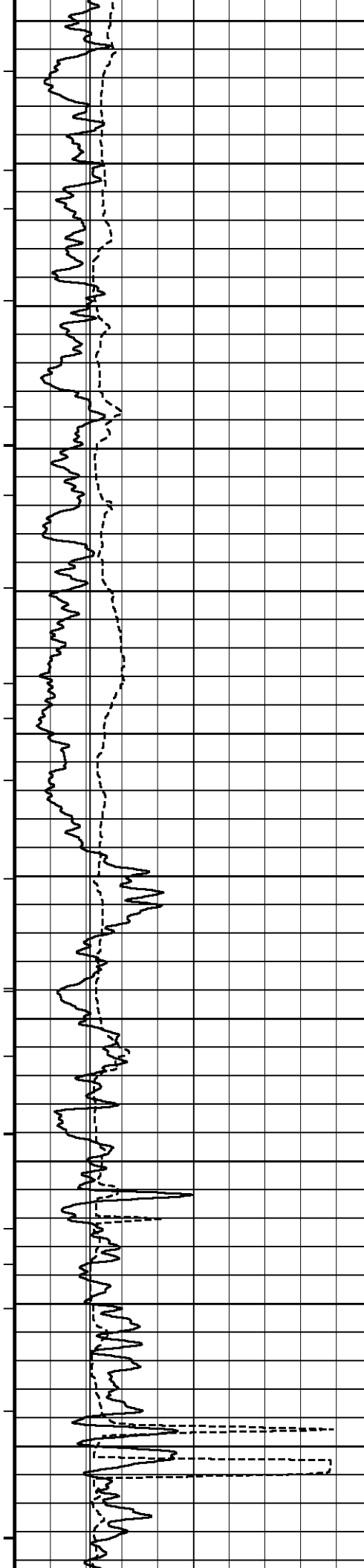
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 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186

Timing Marks every 60.0 sec		
Gamma Ray API		
0	75	150
150	225	300
Density Caliper inches		
4	9	14
14	19	24
Bit Size inches		
4	9	14

Depth In Feet	Array Ind. Four Cond Ct				
	1000	750	500	250	0
	2000	1750	1500	1250	1000
	mmhos				
	Array Ind. Four Res 20				
	ohm metres				
	0	50	100		
	0	500	1000		
	Array Ind. Four Res Rt				
	ohm metres				
	0	50	100		
	0	500	1000		
	Replay Scale 1:600				







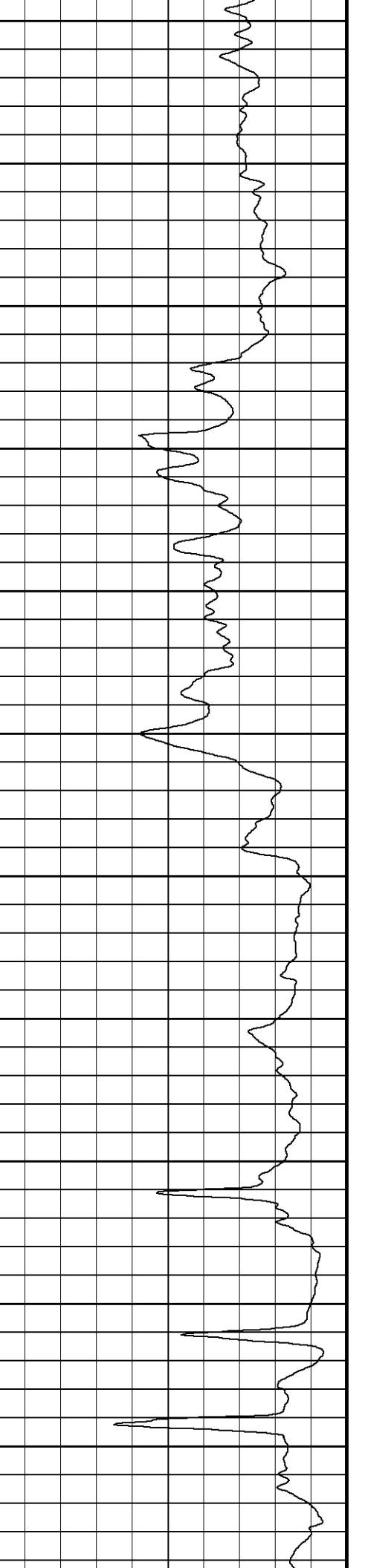
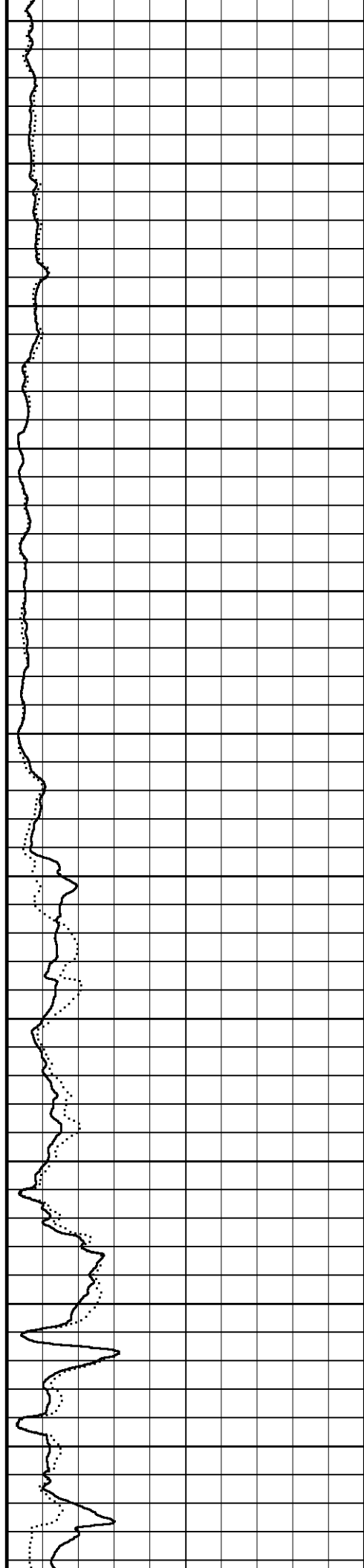
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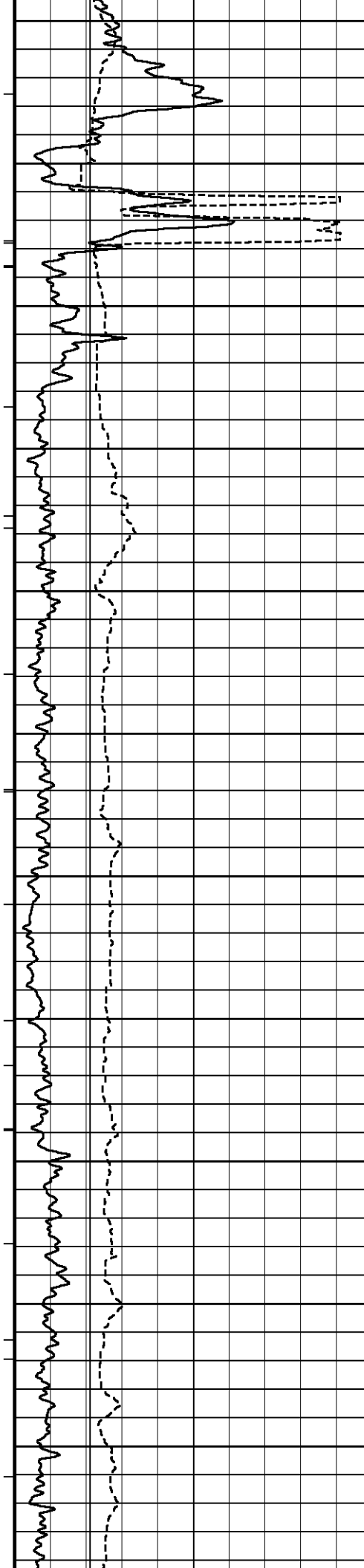
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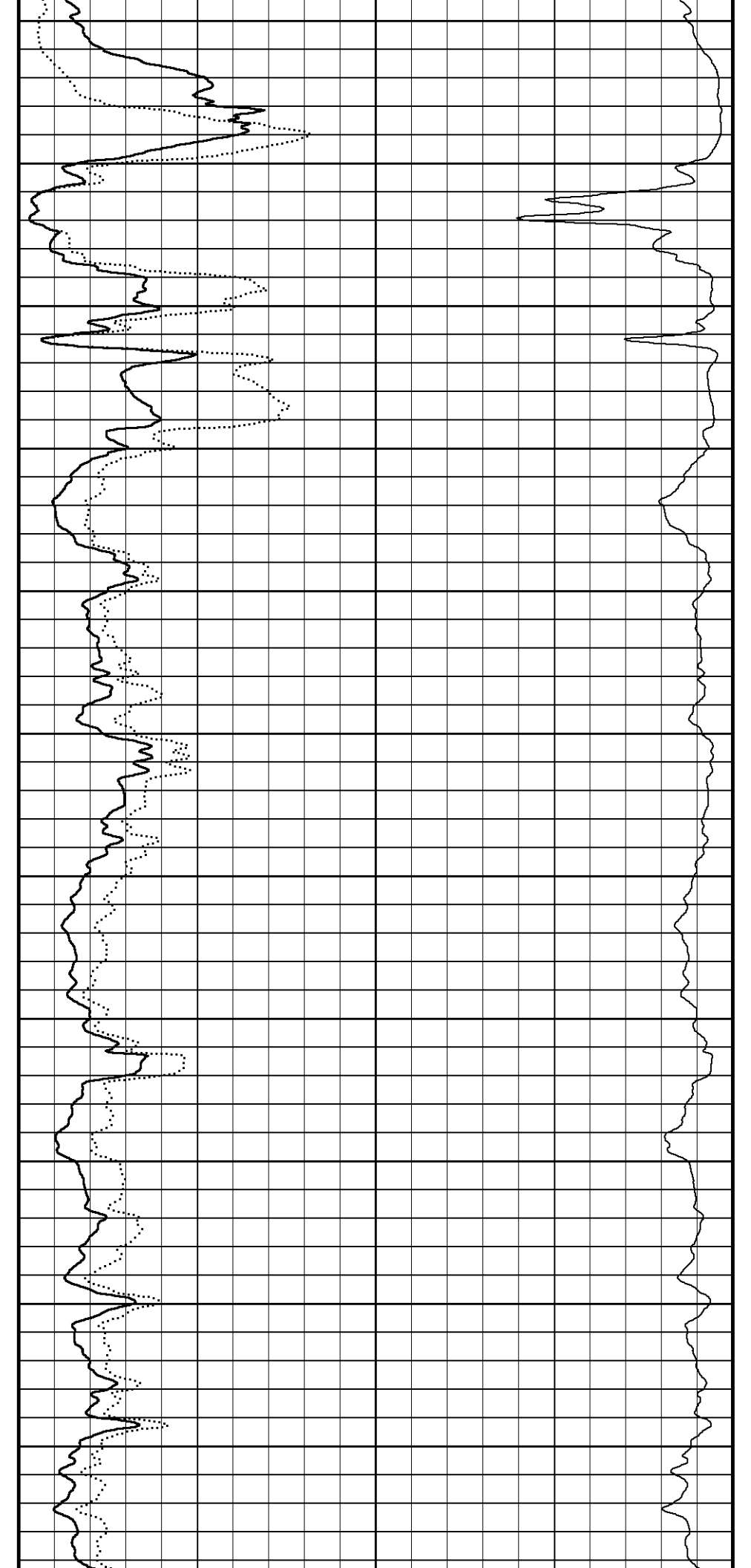
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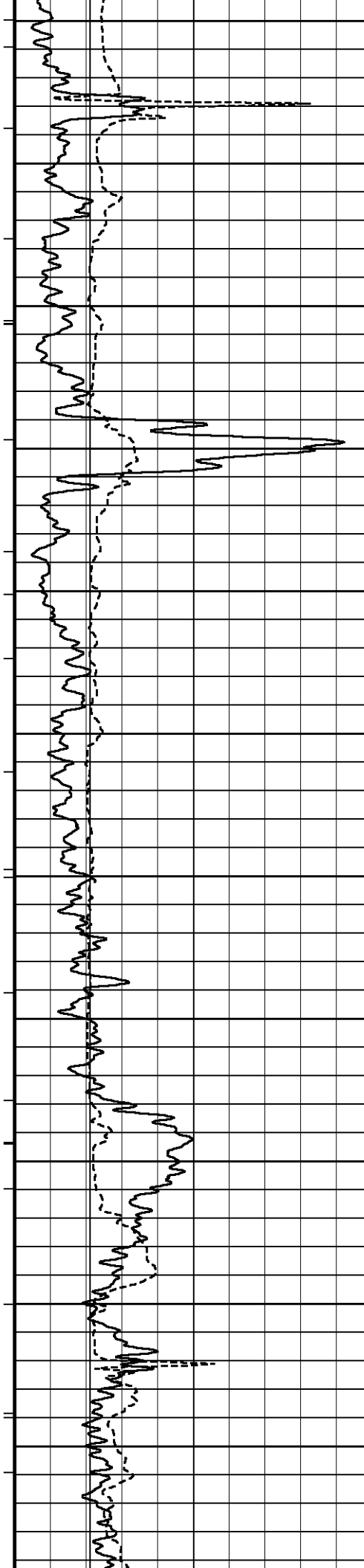
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7100

7200

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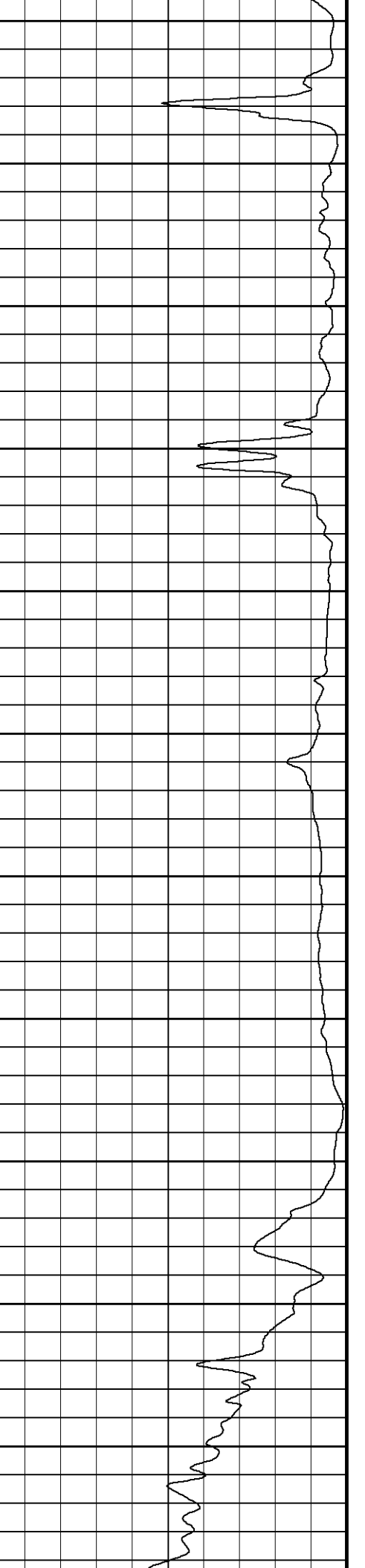
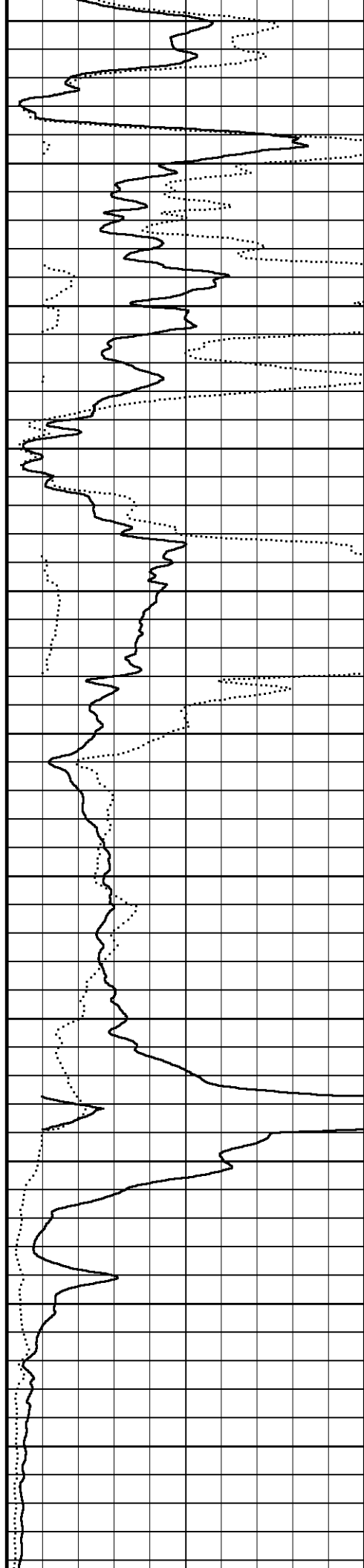
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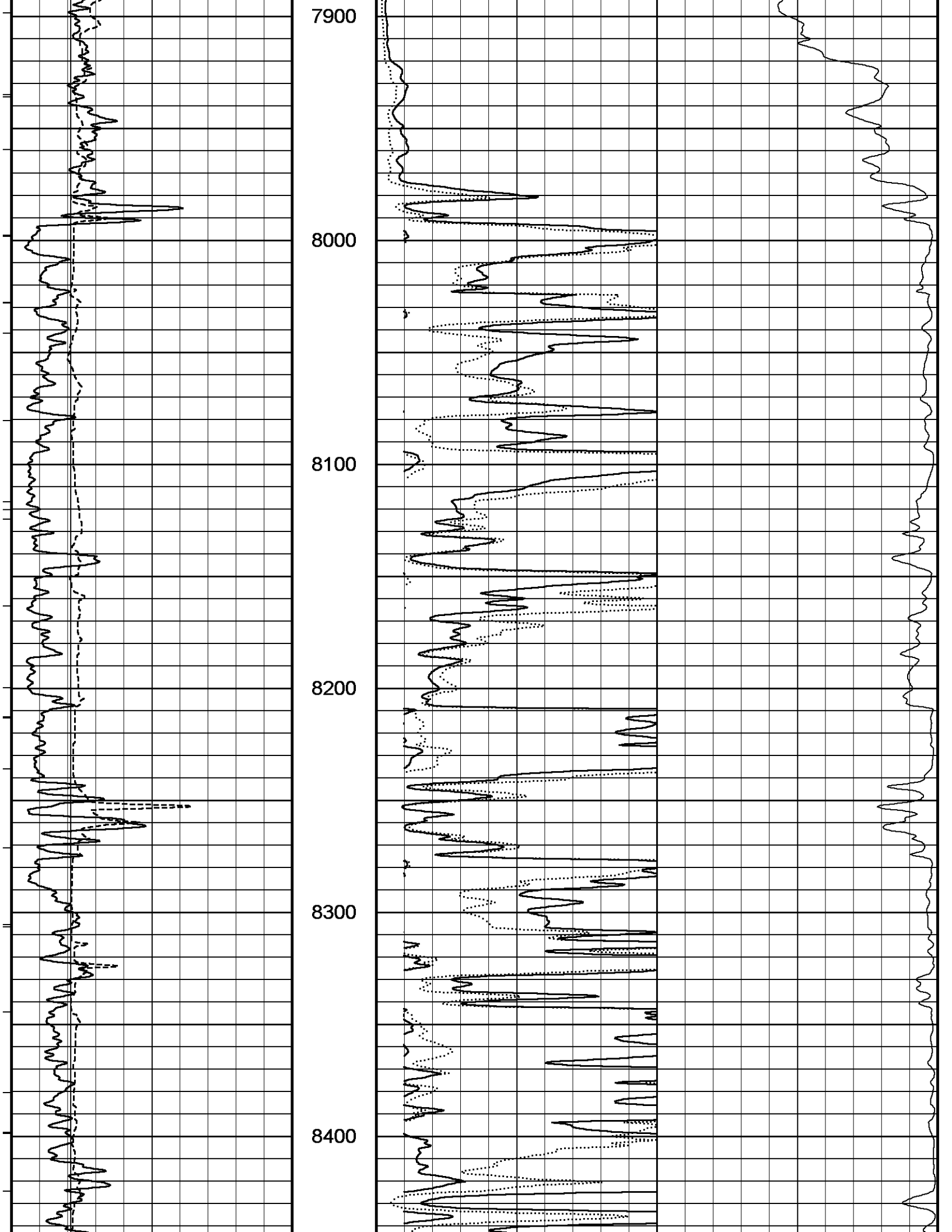
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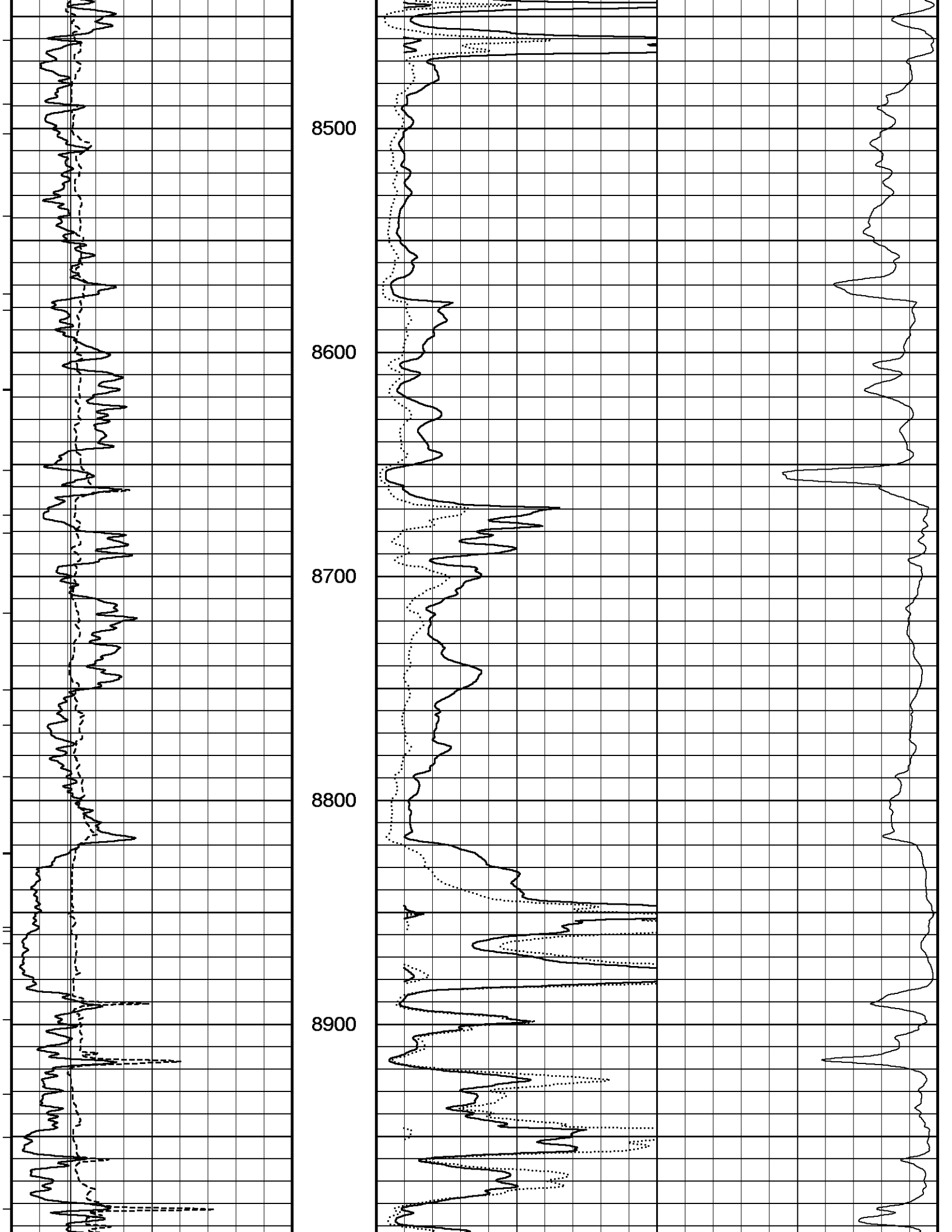
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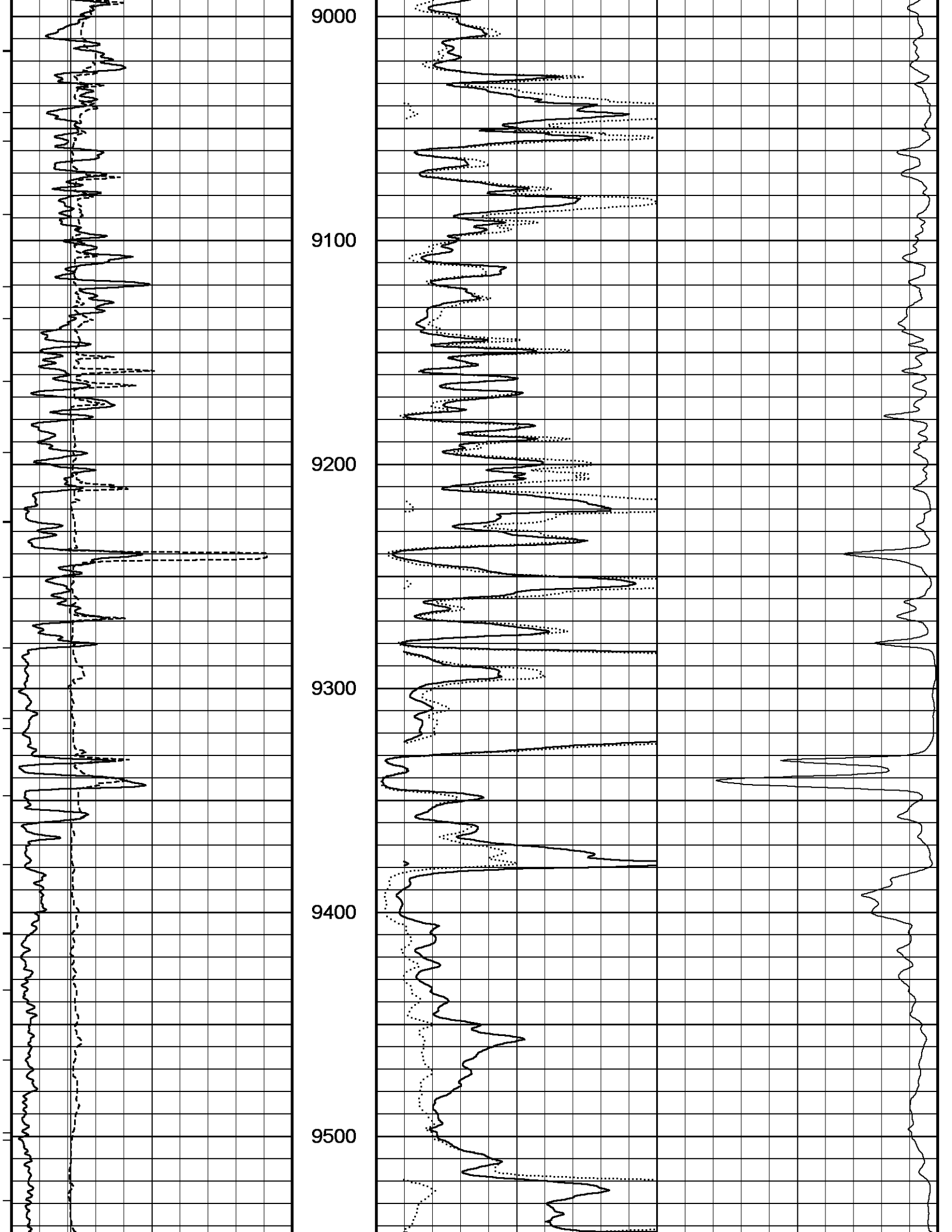
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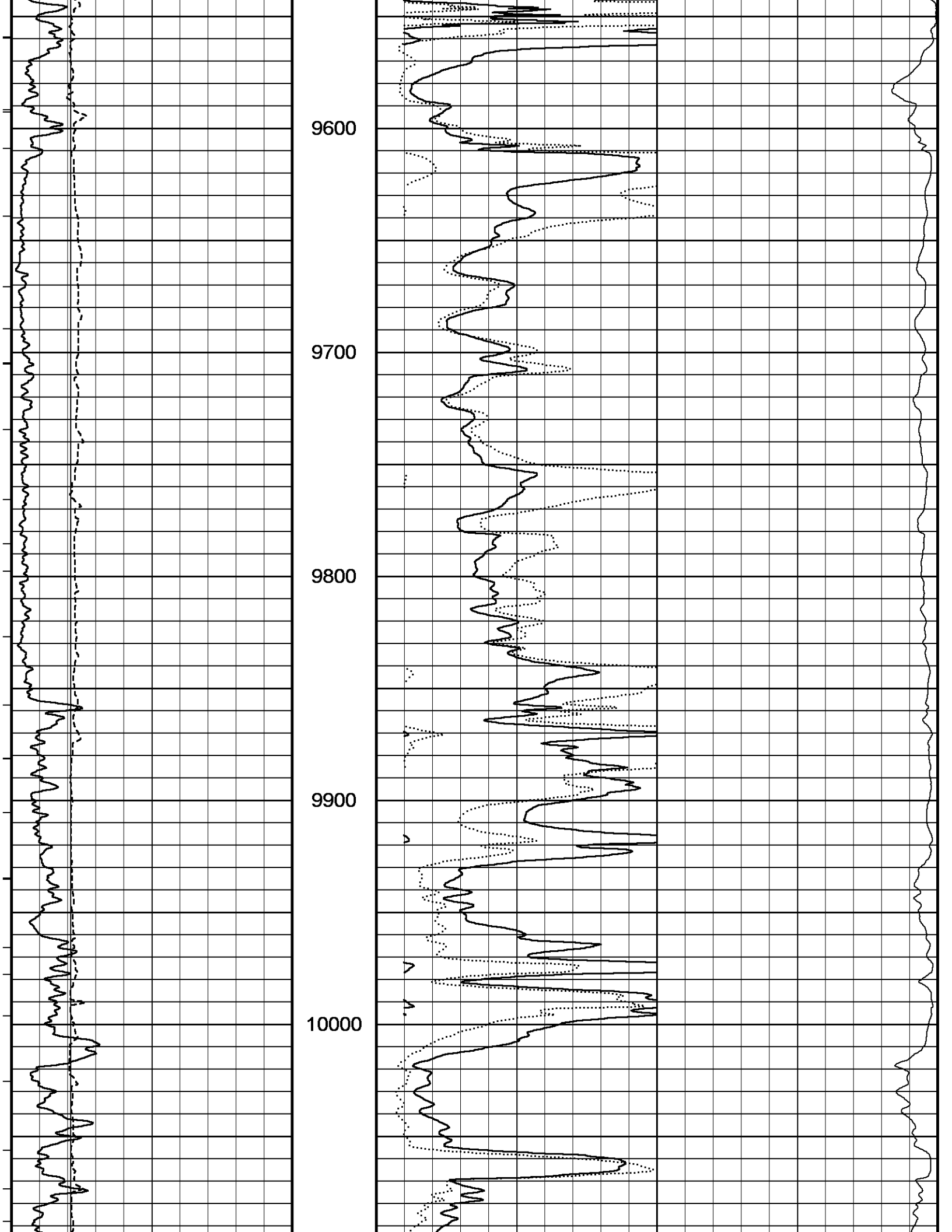
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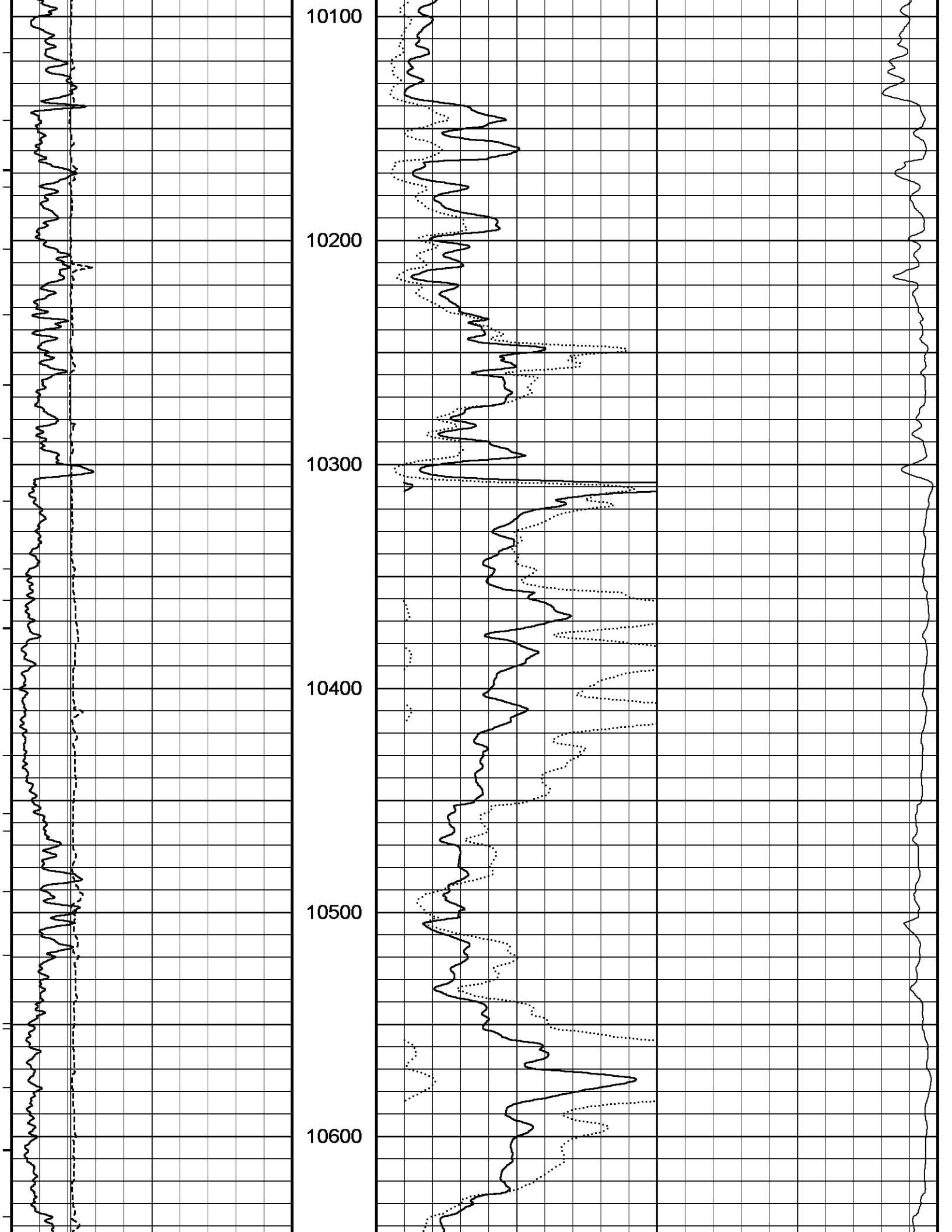


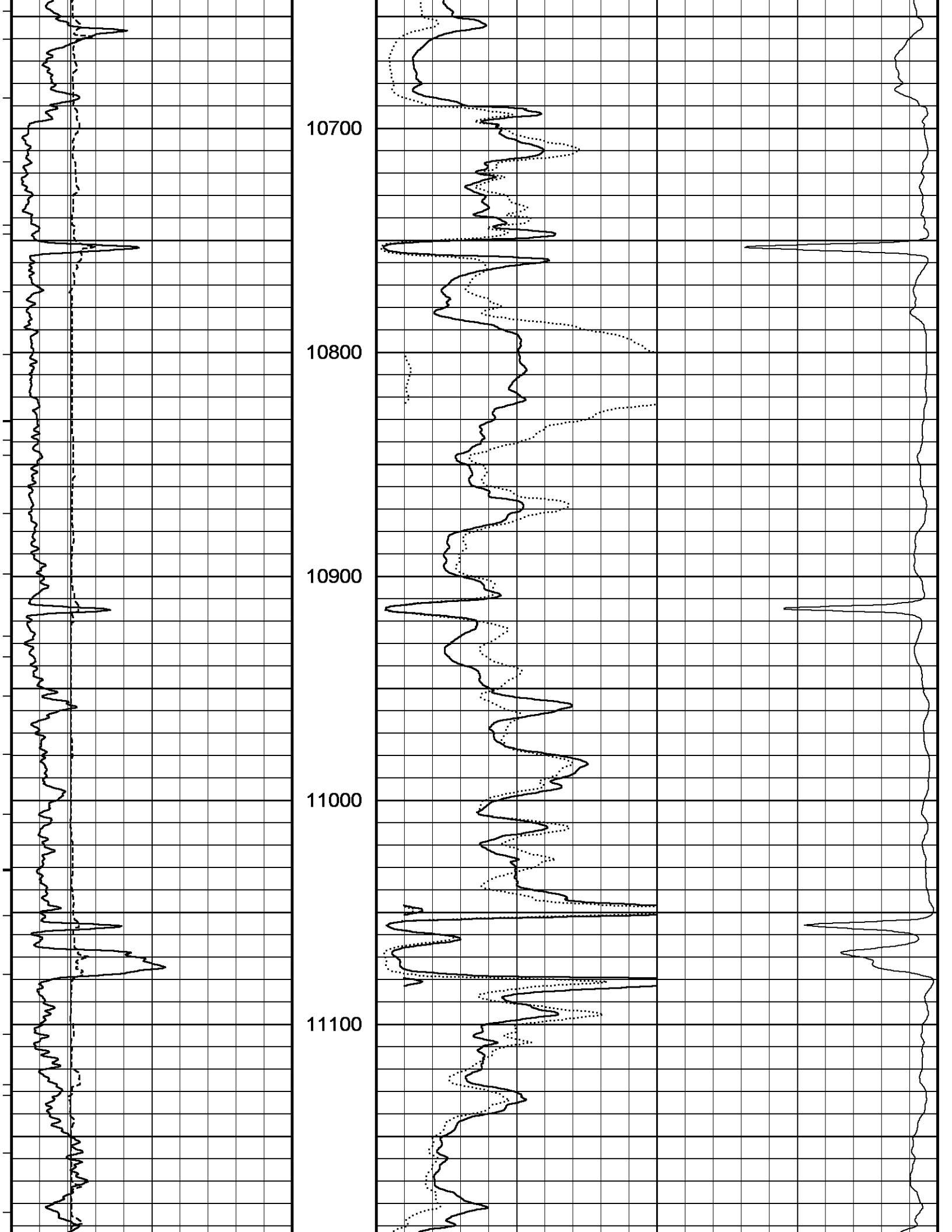


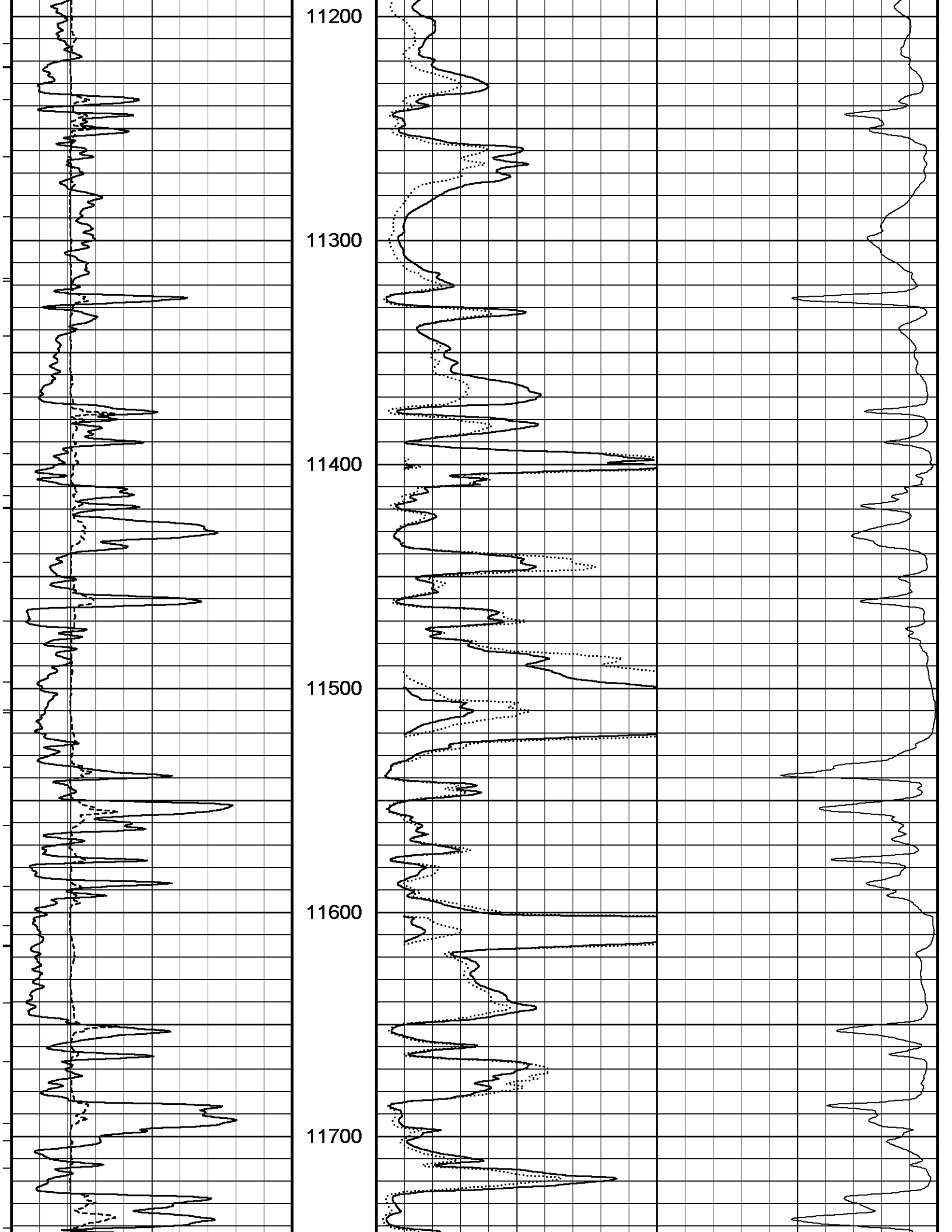


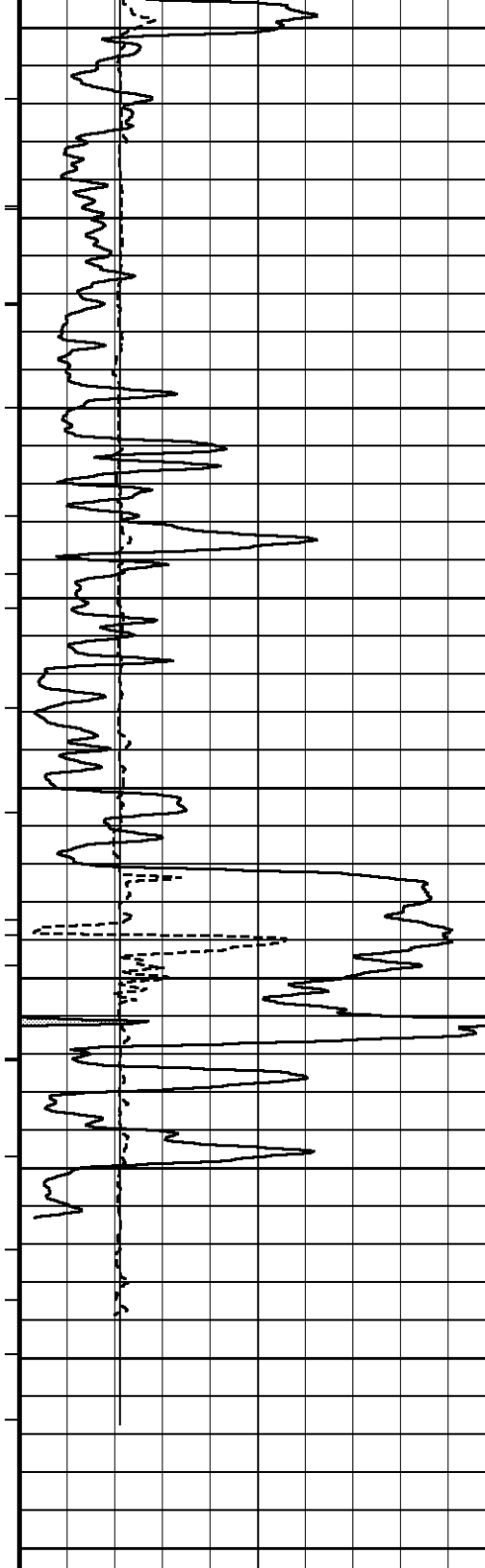










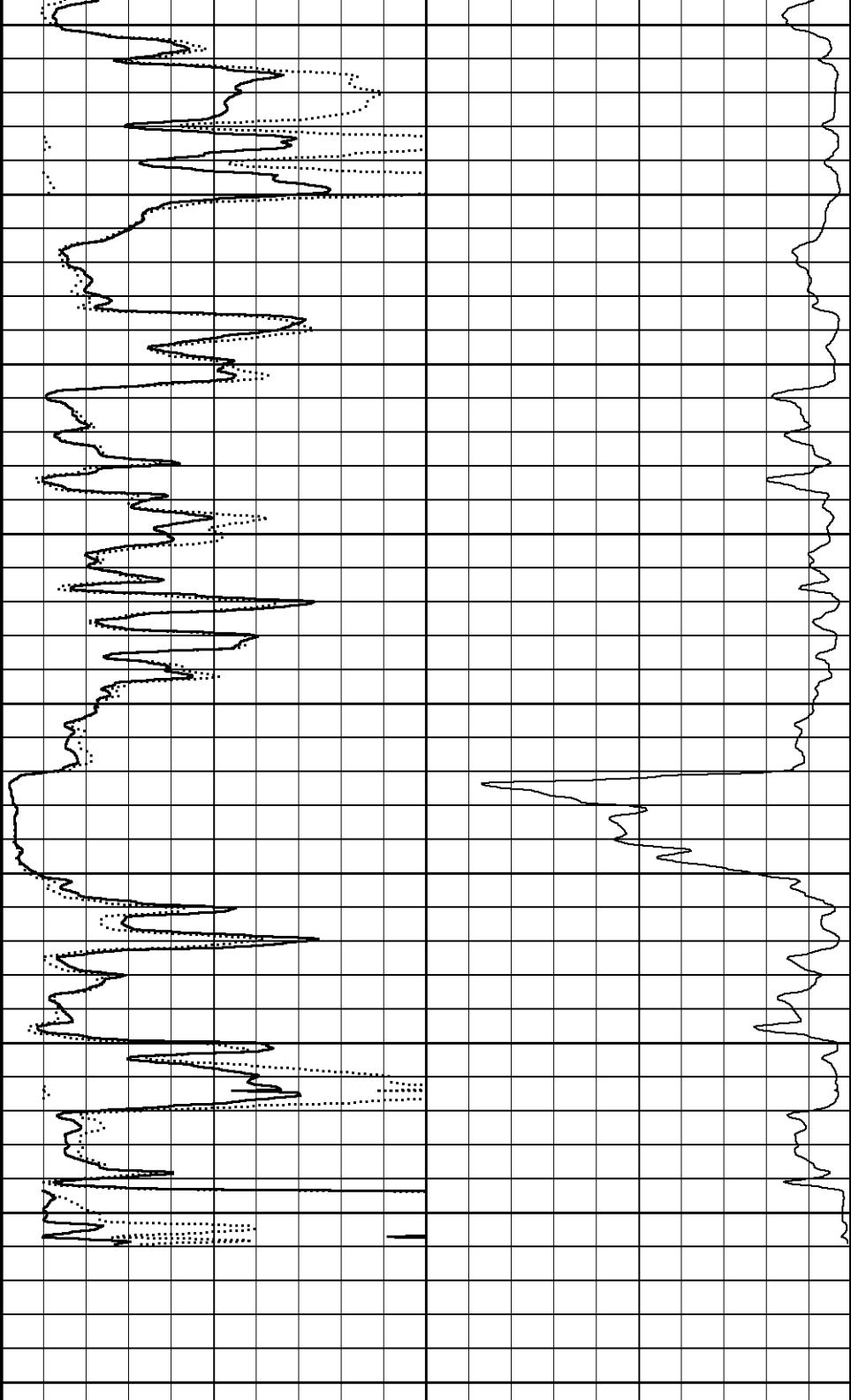


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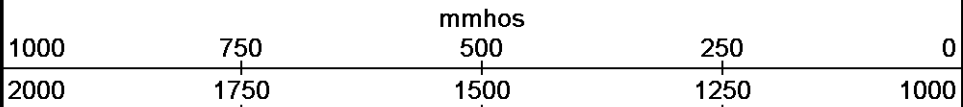
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12100
TD

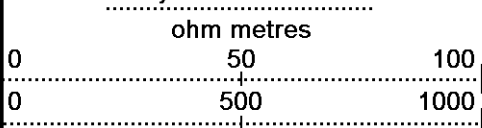


Depth
In
Feet

Array Ind. Four Cond Ct



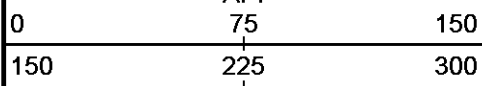
Array Ind. Four Res 20



Timing Marks
every 60.0 sec

Gamma Ray

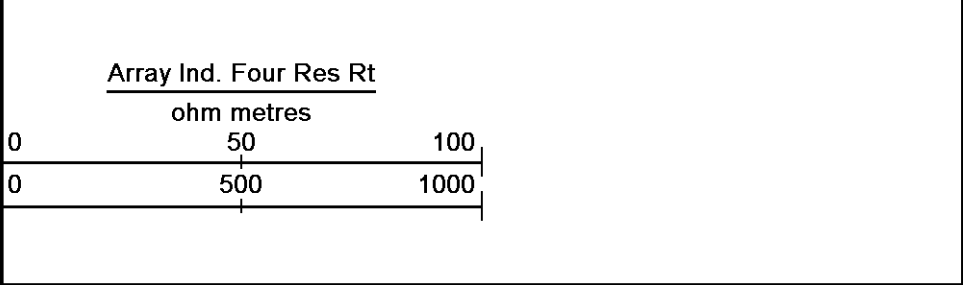
API



Density Caliper
inches

4	9	14
14	19	24
<u>Bit Size</u>		
inches		
4	9	14

Replay
Scale
1:600



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-APR-2011 03:10
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↑ 2 INCH MAIN LOG ↑

↓ 5 INCH MAIN LOG ↓

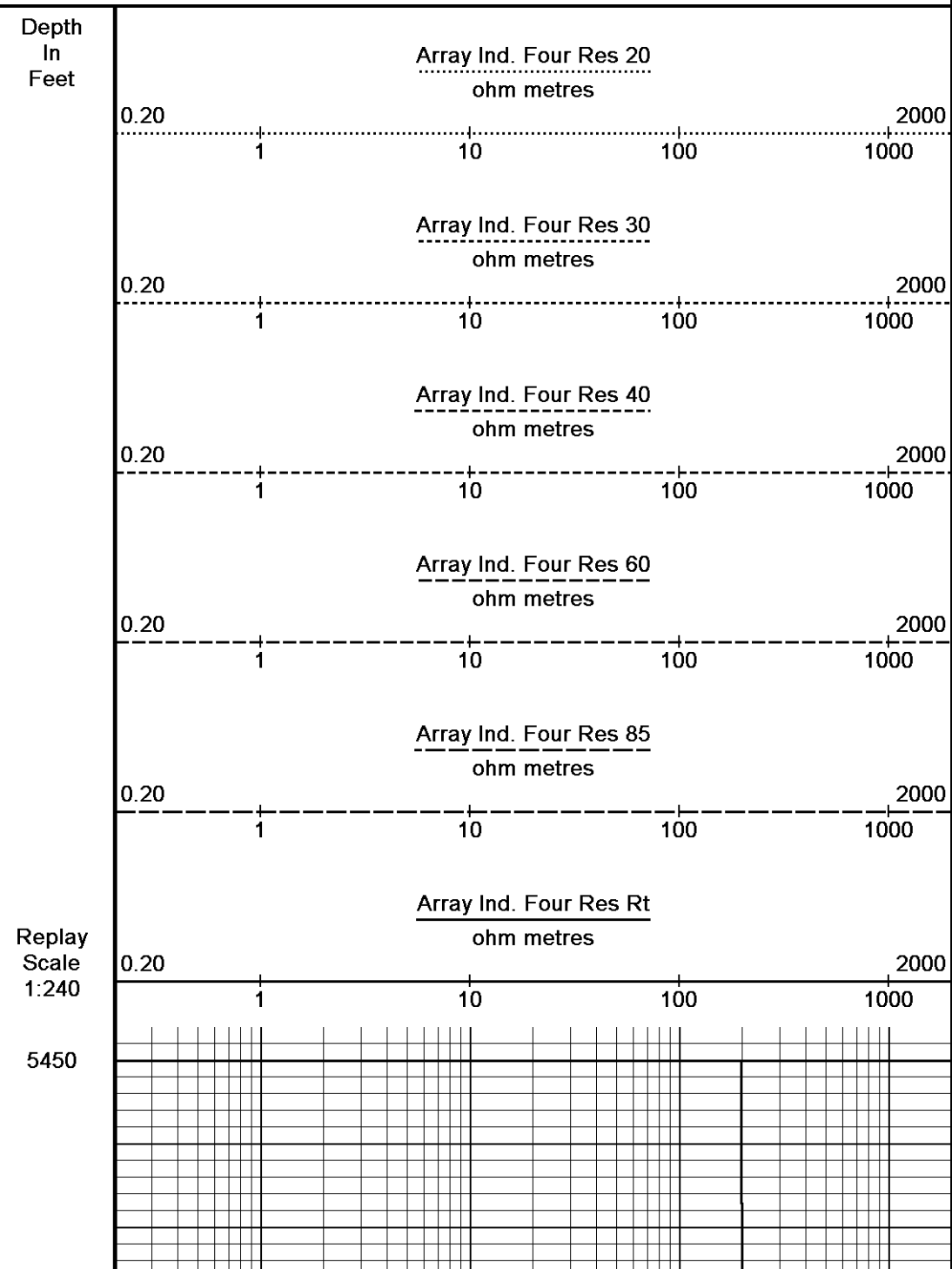
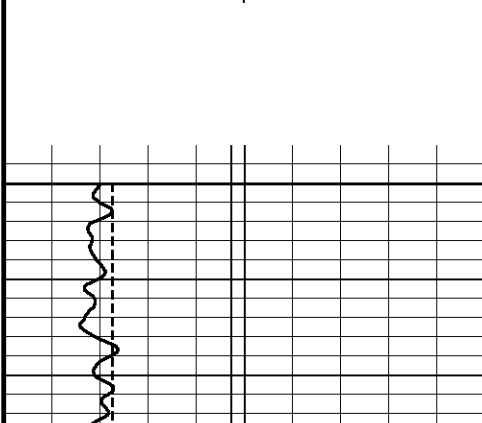
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 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186

← Timing Marks
every 60.0 sec

<u>Gamma Ray</u>		
API		
0	75	150
150	225	300

<u>Density Caliper</u>		
inches		
4	9	14
14	19	24

<u>Bit Size</u>		
inches		
4	9	14



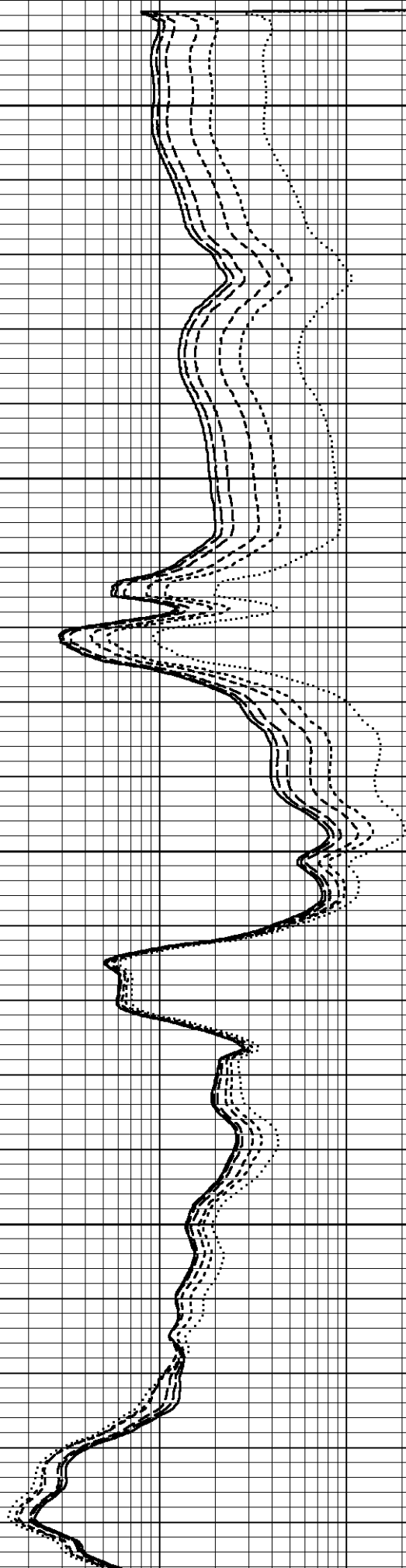
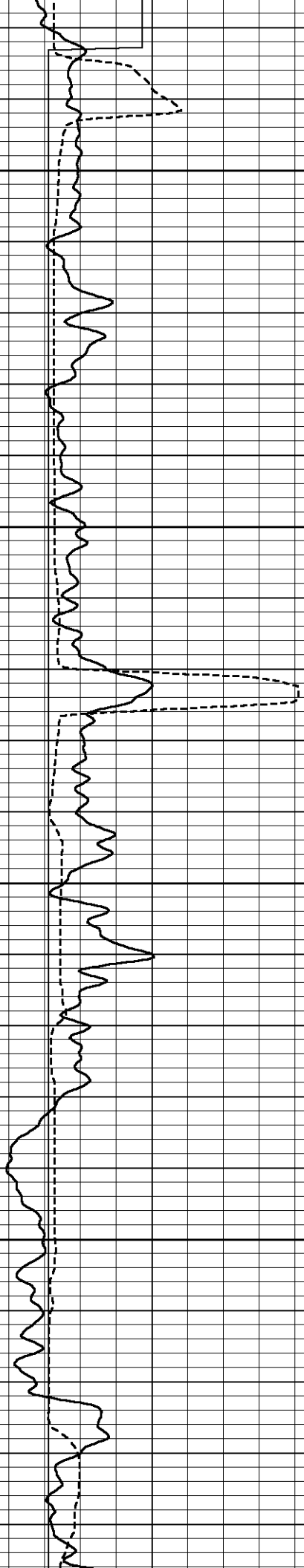
Casing
Shoe

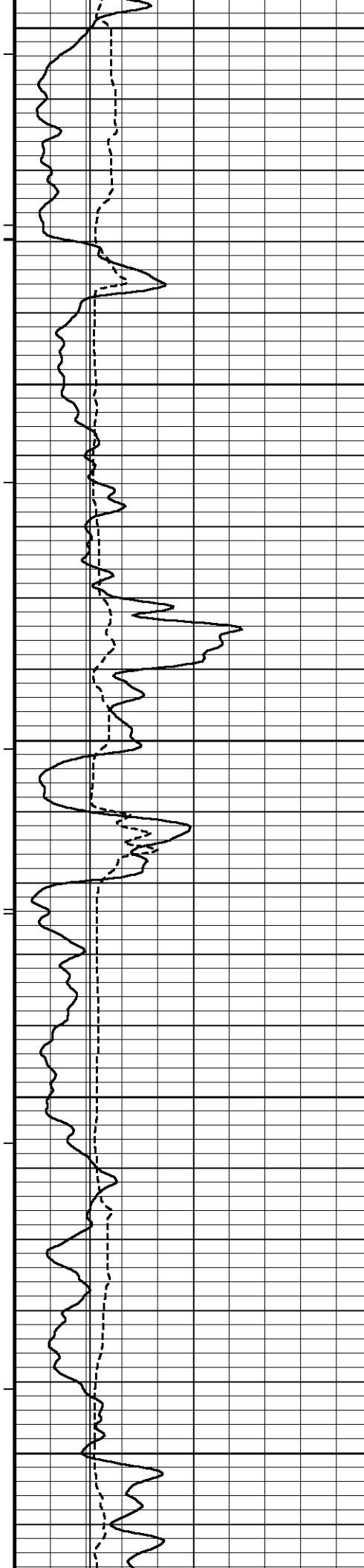
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5600

5650





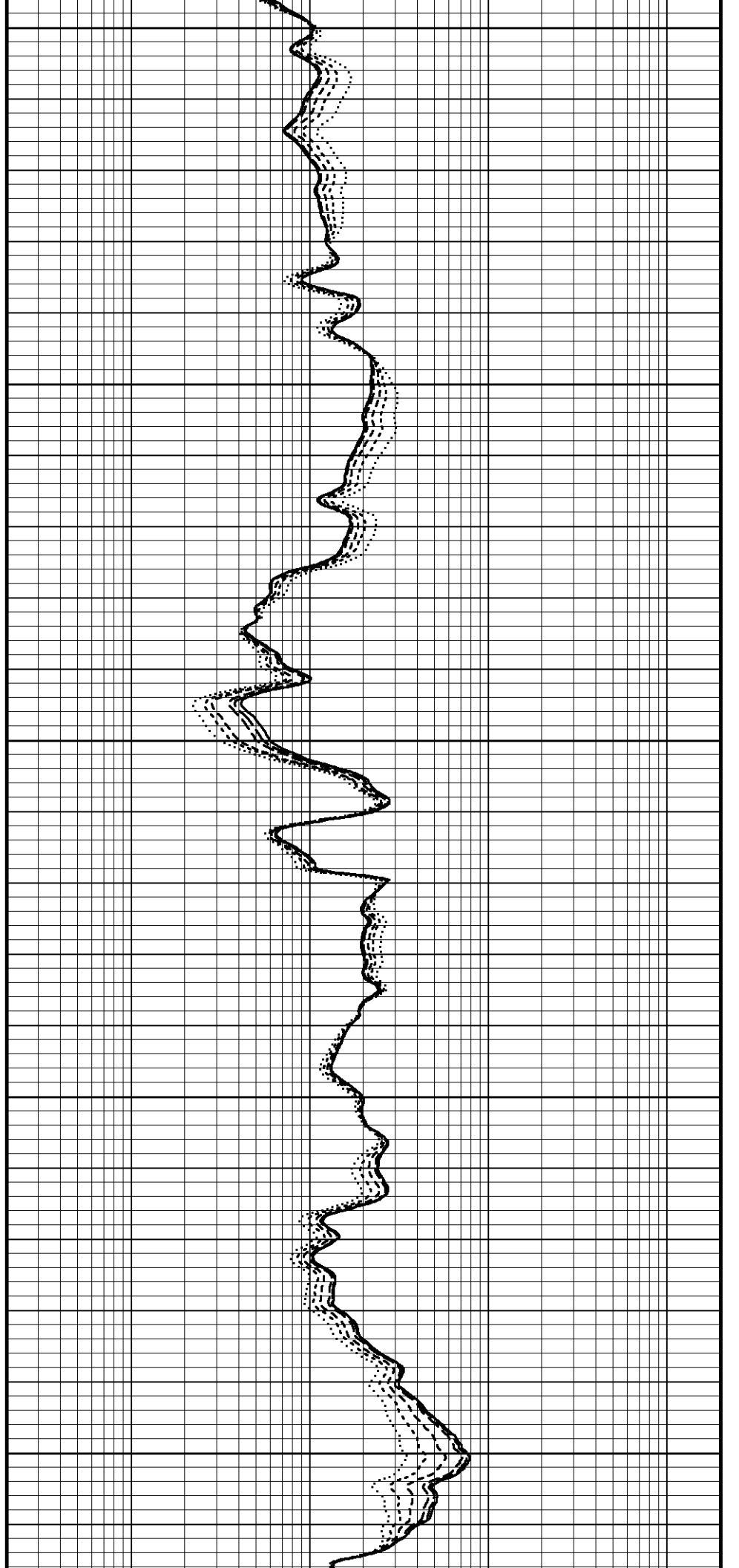
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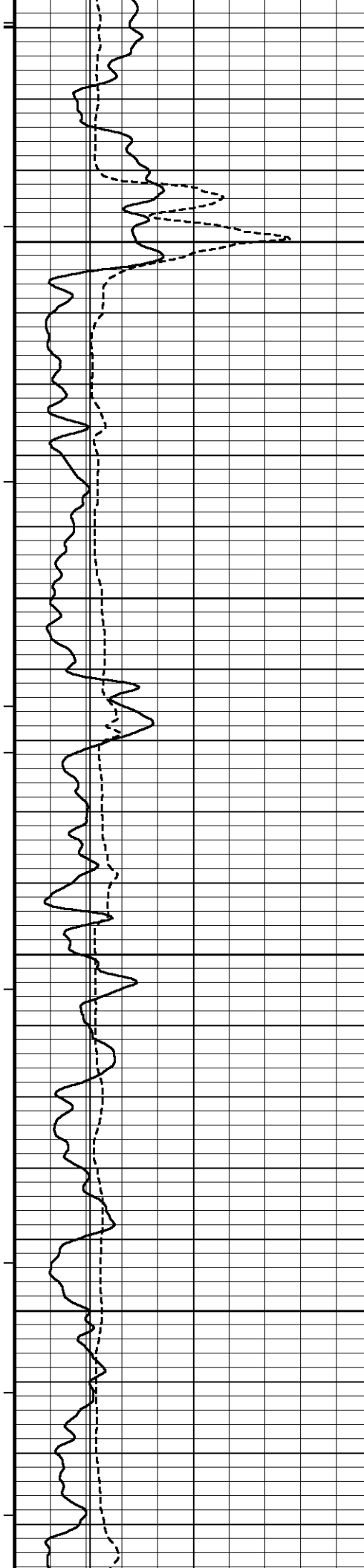
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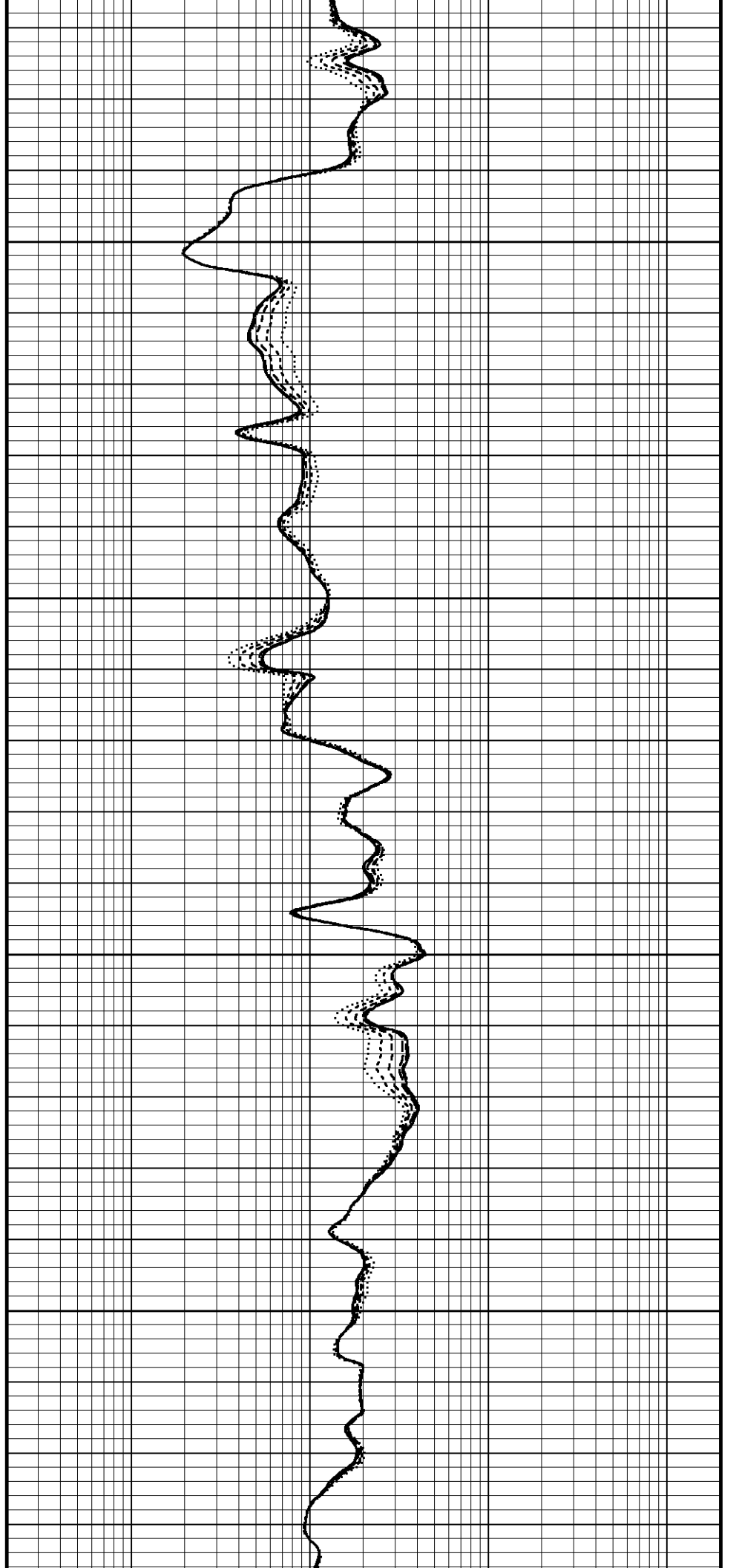


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6100





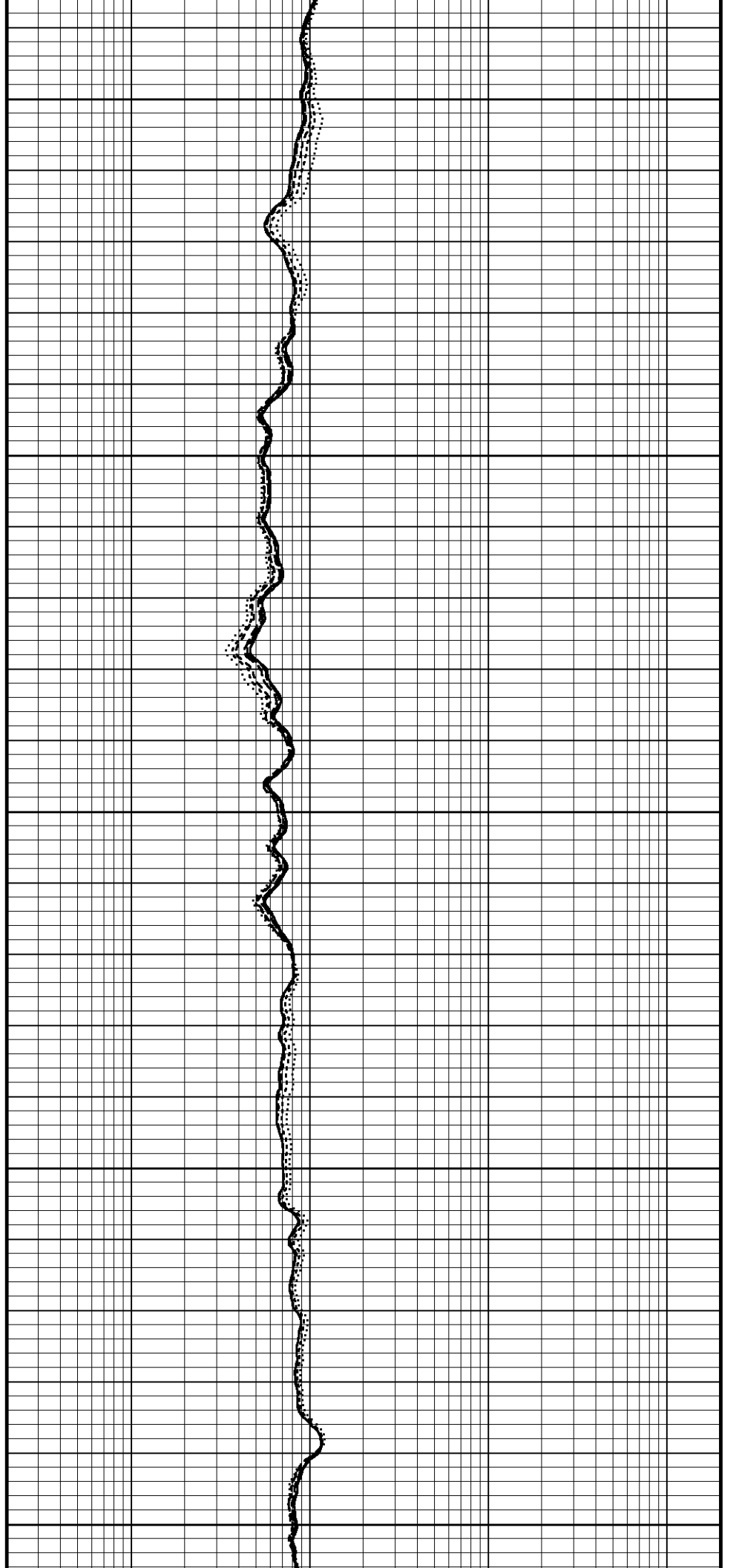
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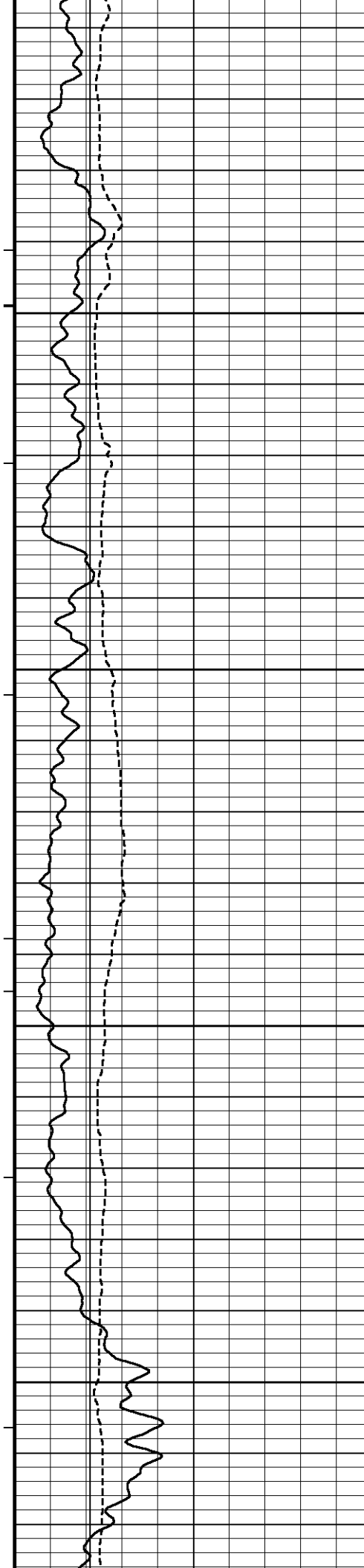
6200

6250

6300

6350



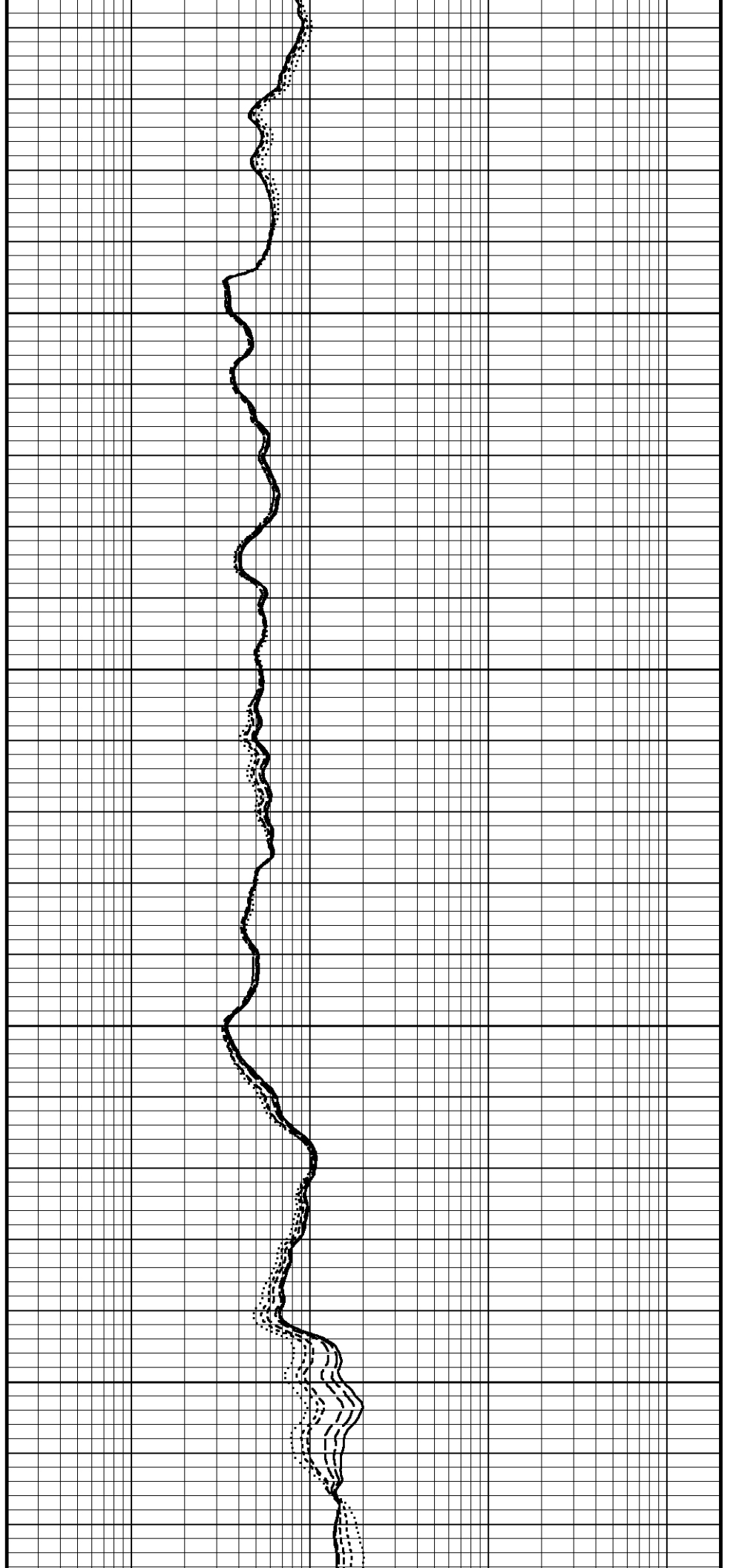


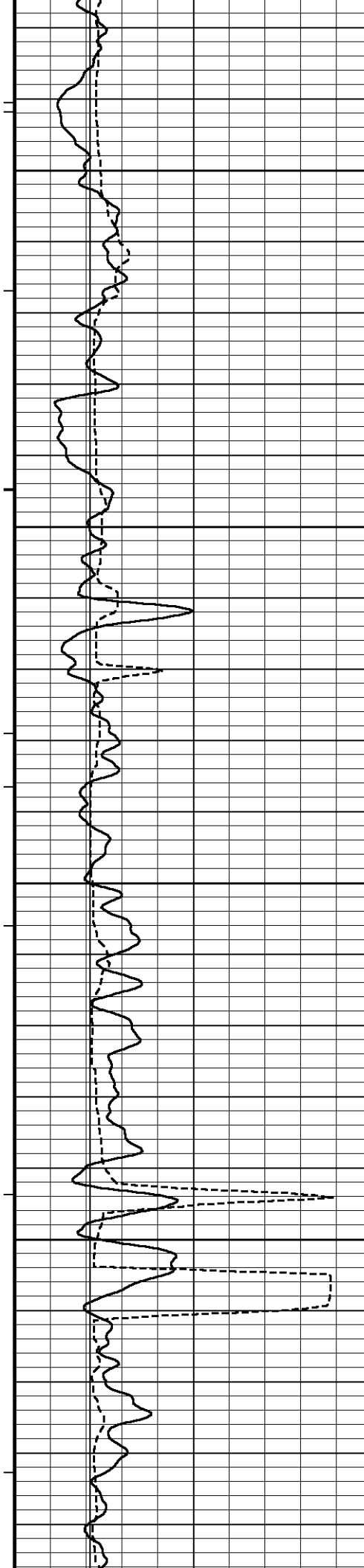
6400

6450

6500

6550



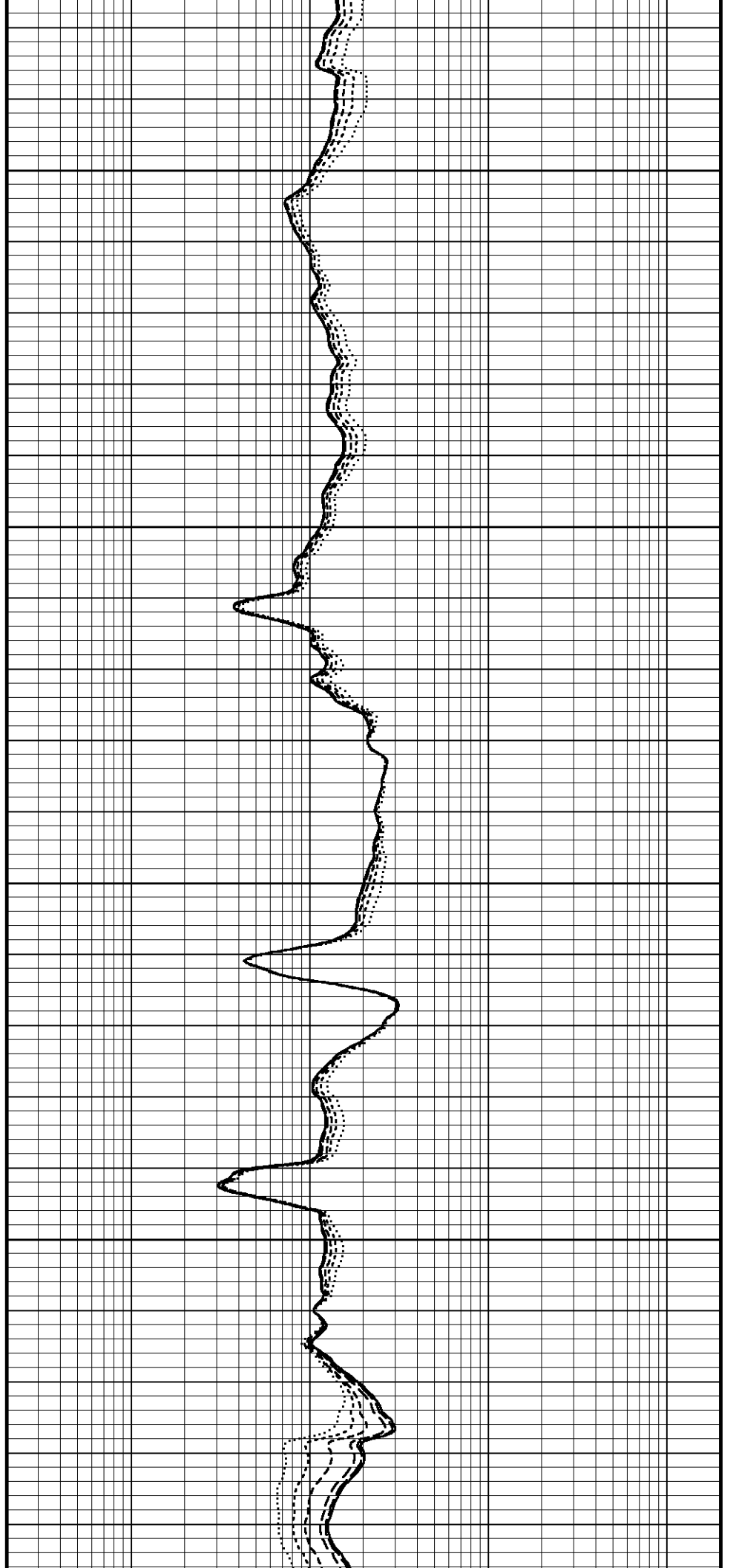


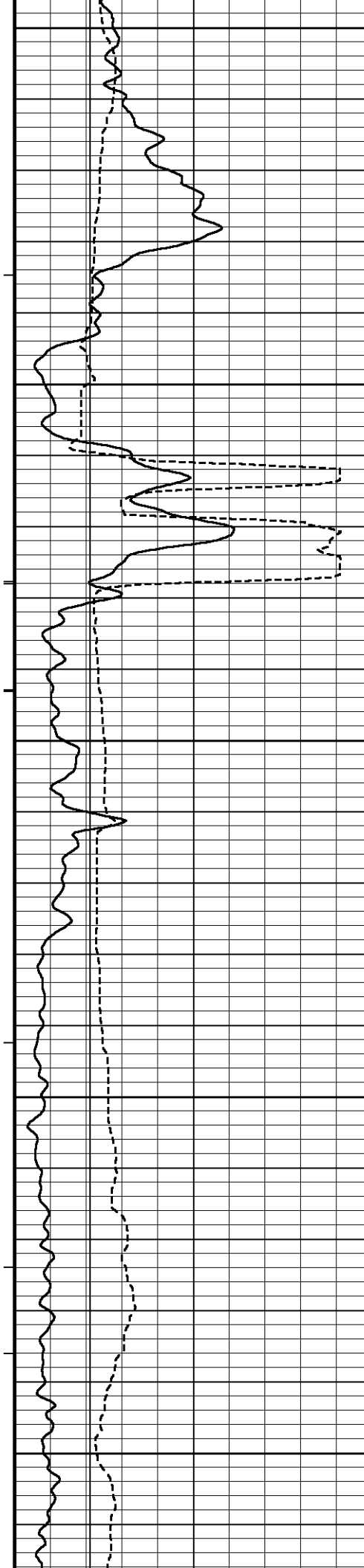
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6650

6700

6750





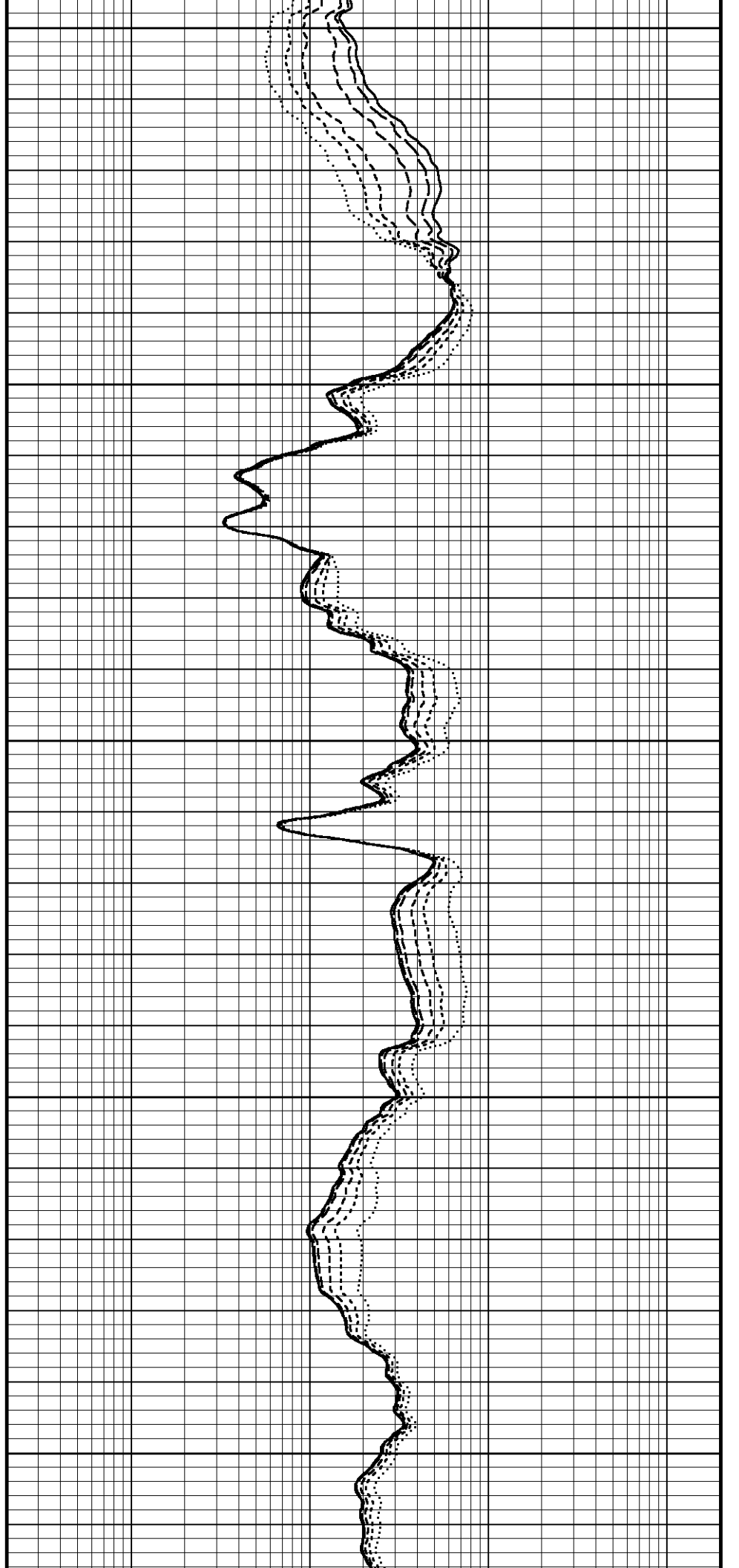
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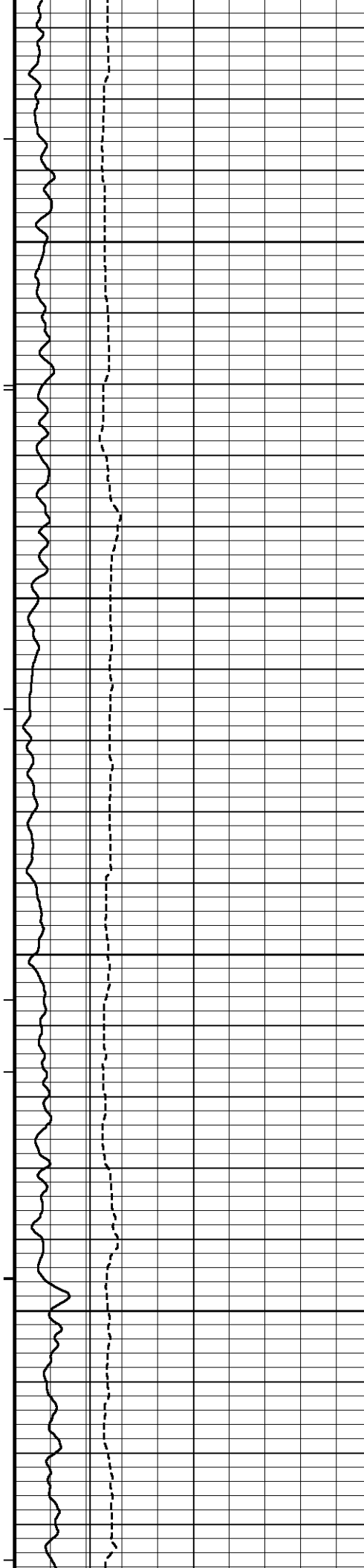
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6900

6950

7000



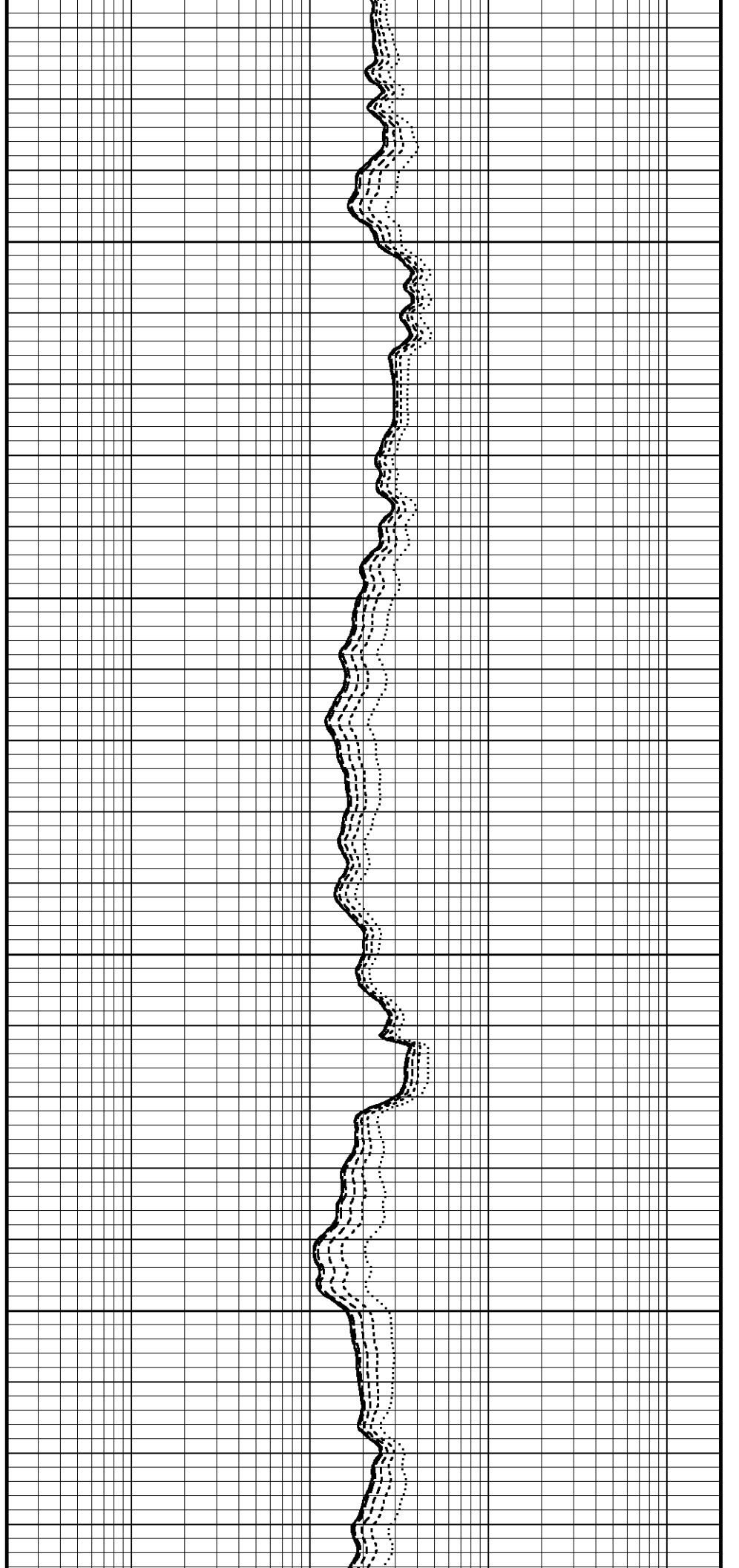


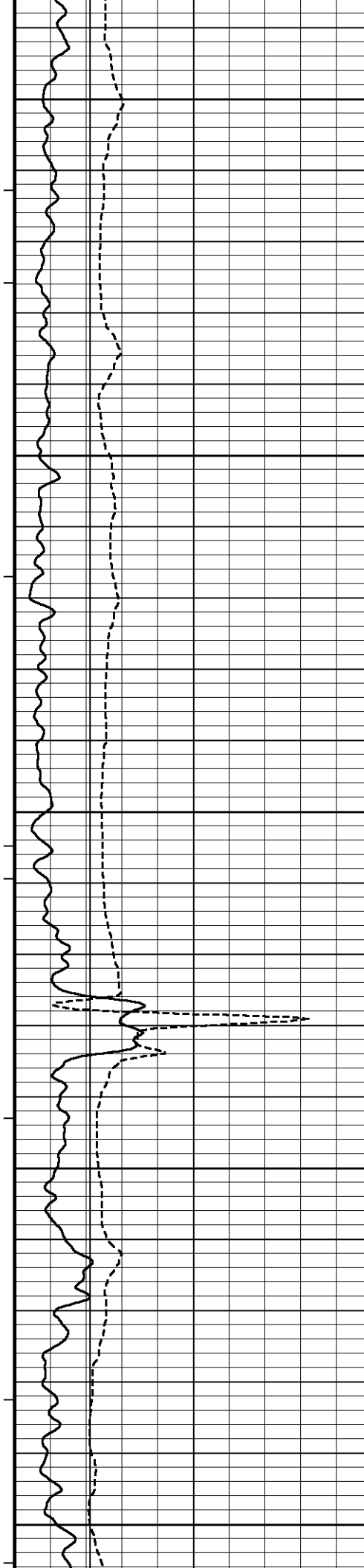
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7100

7150

7200





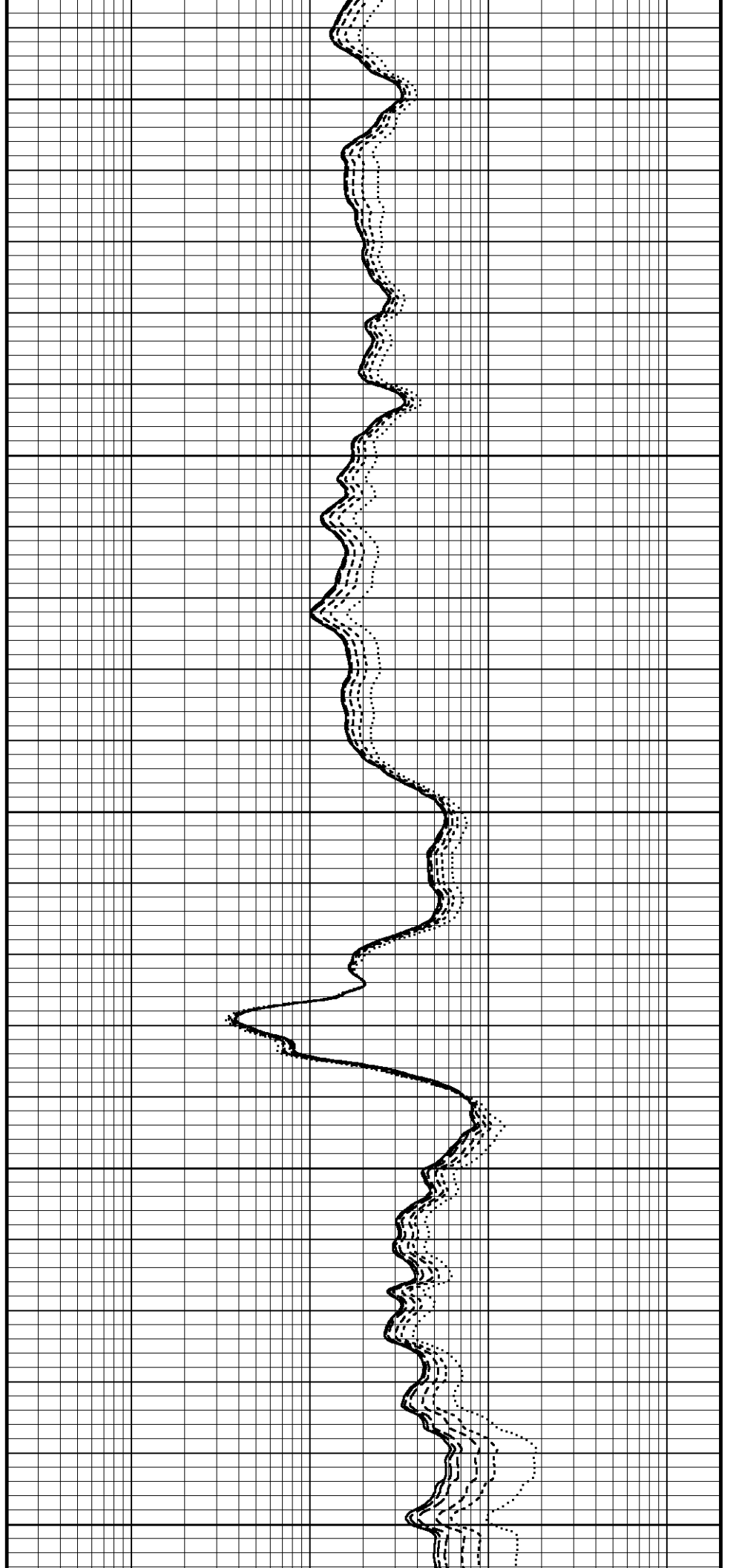
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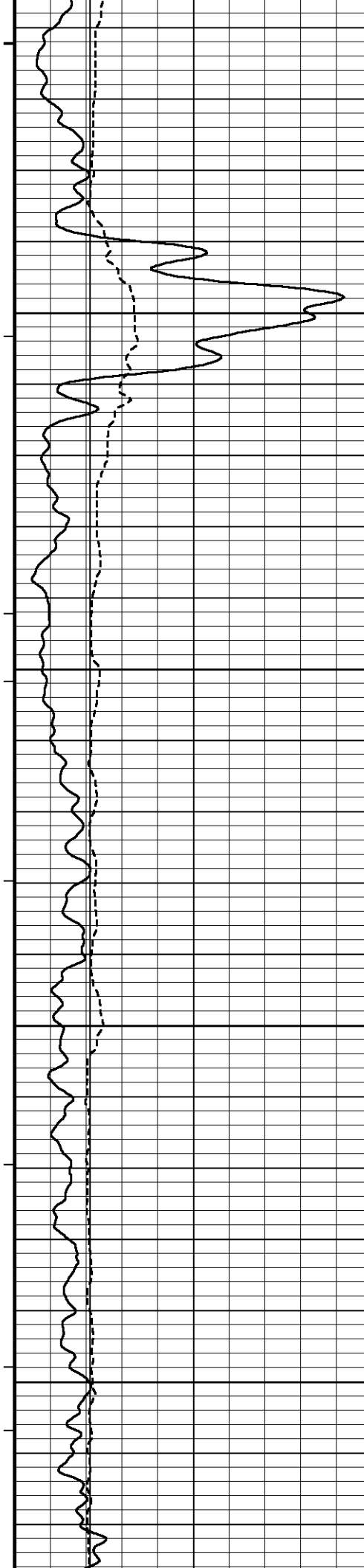
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7350

7400

7450



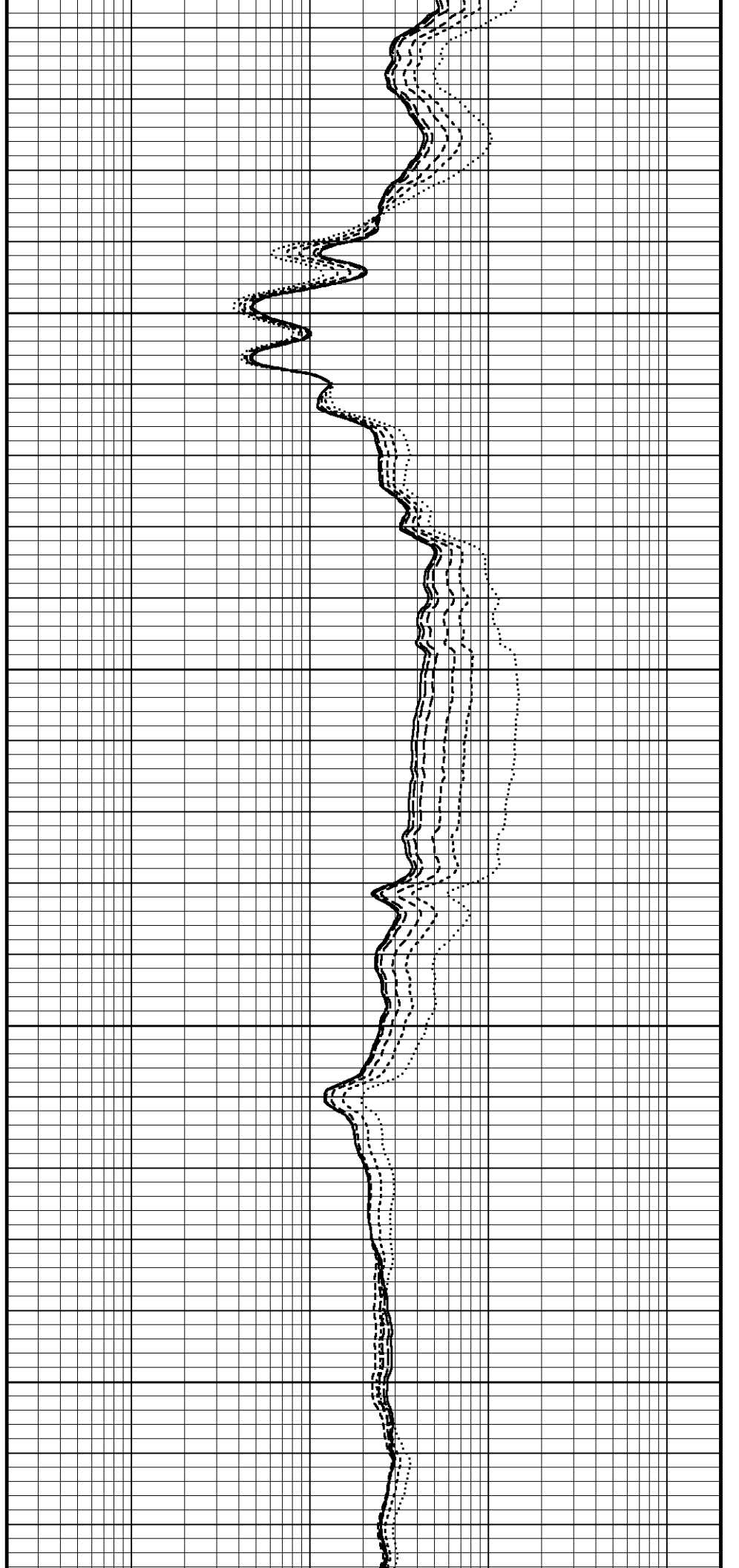


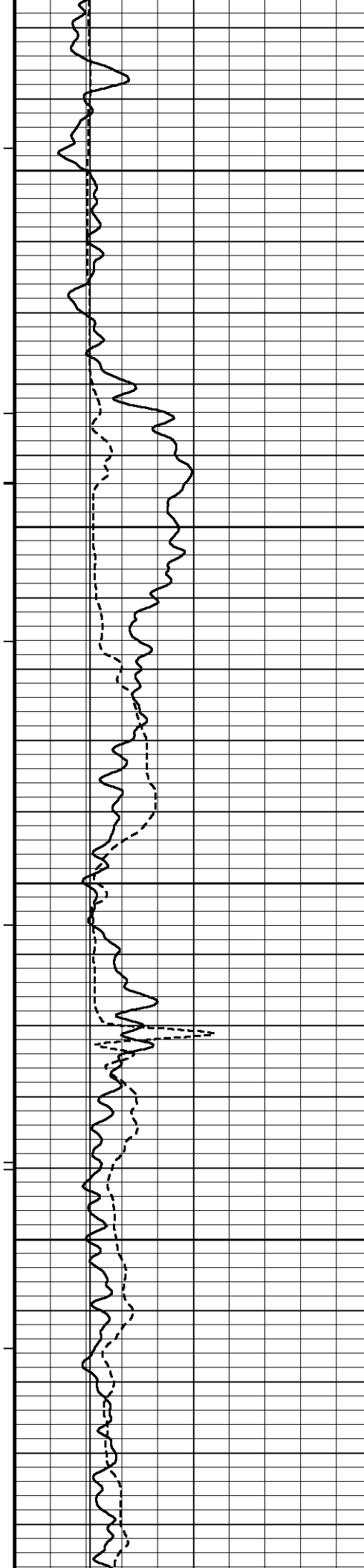
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7550

7600

7650



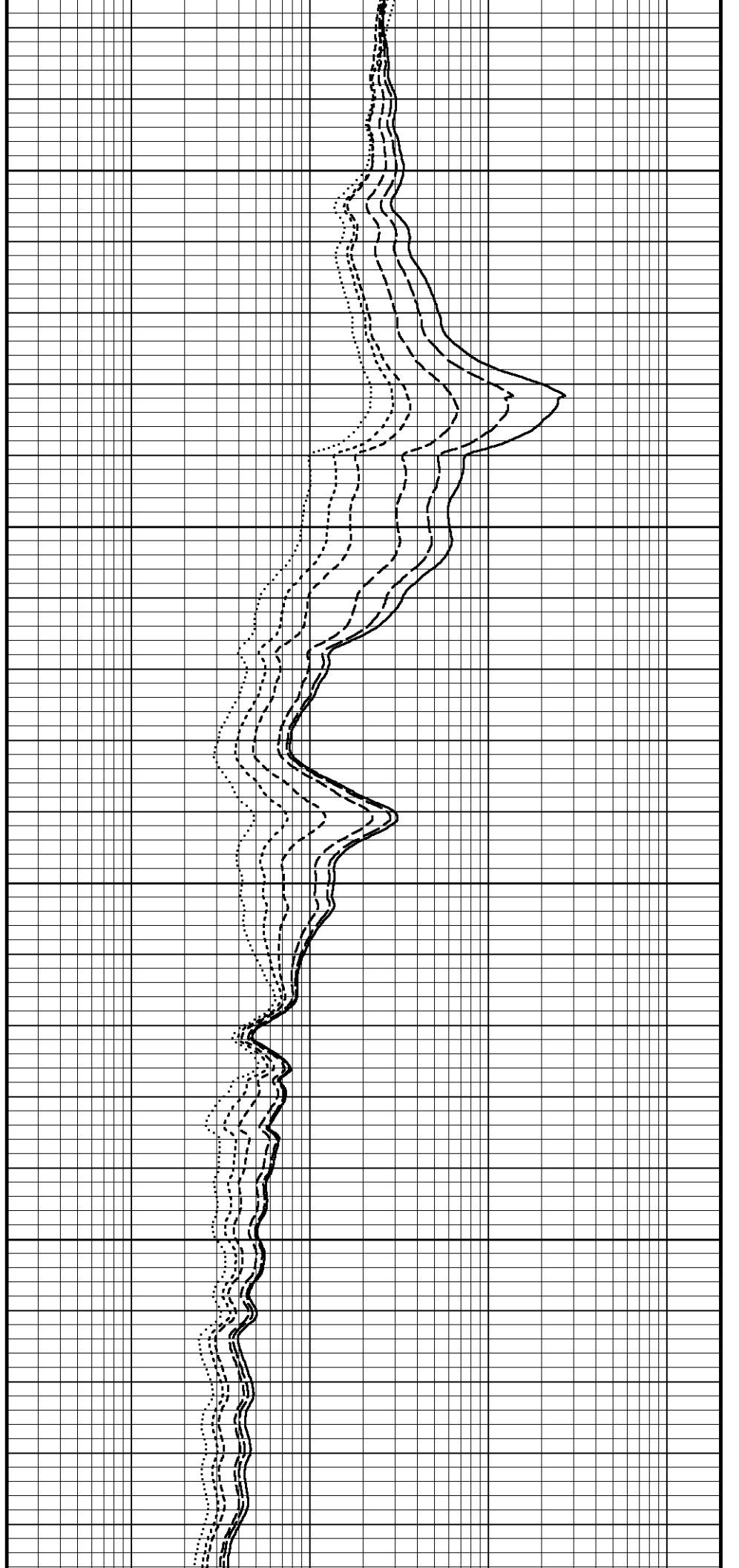


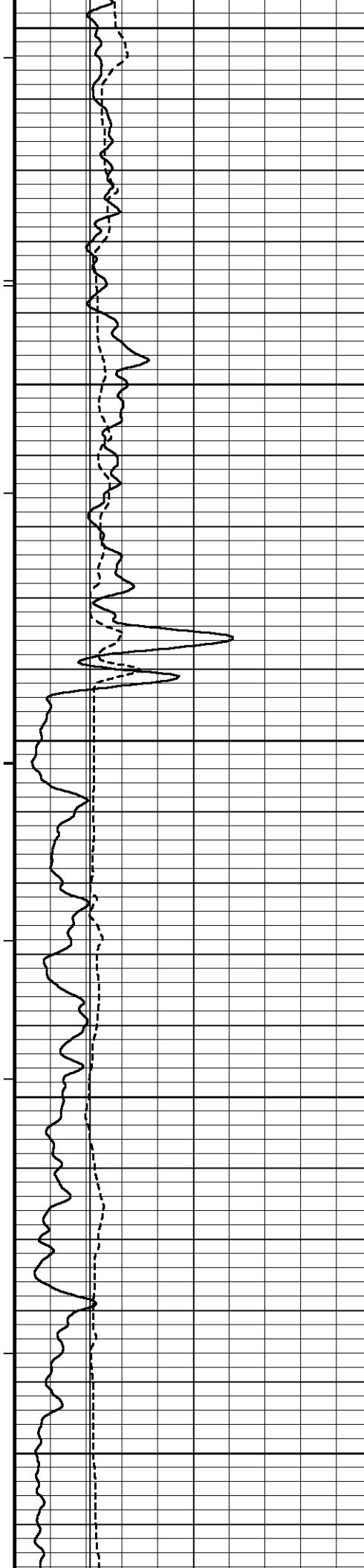
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7750

7800

7850





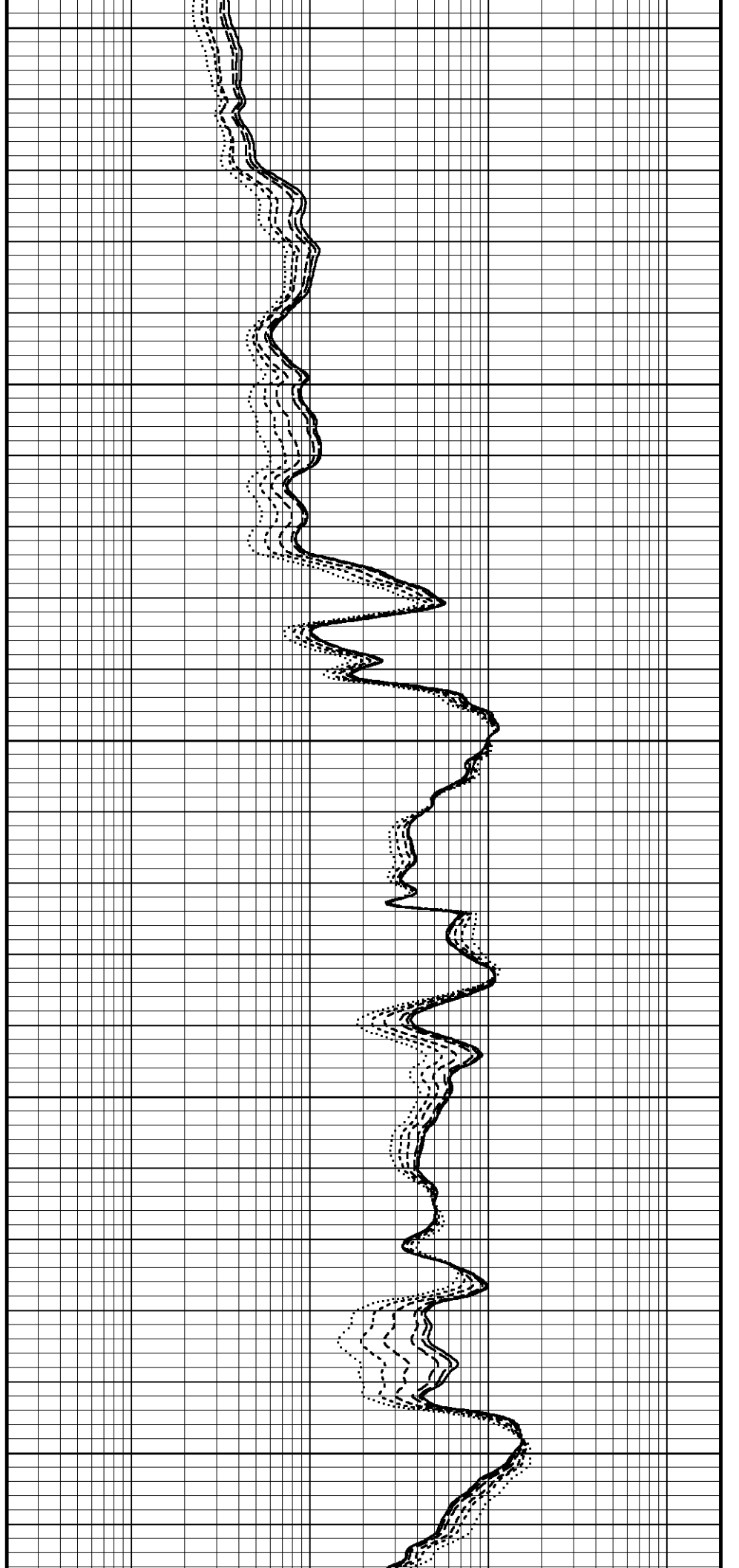
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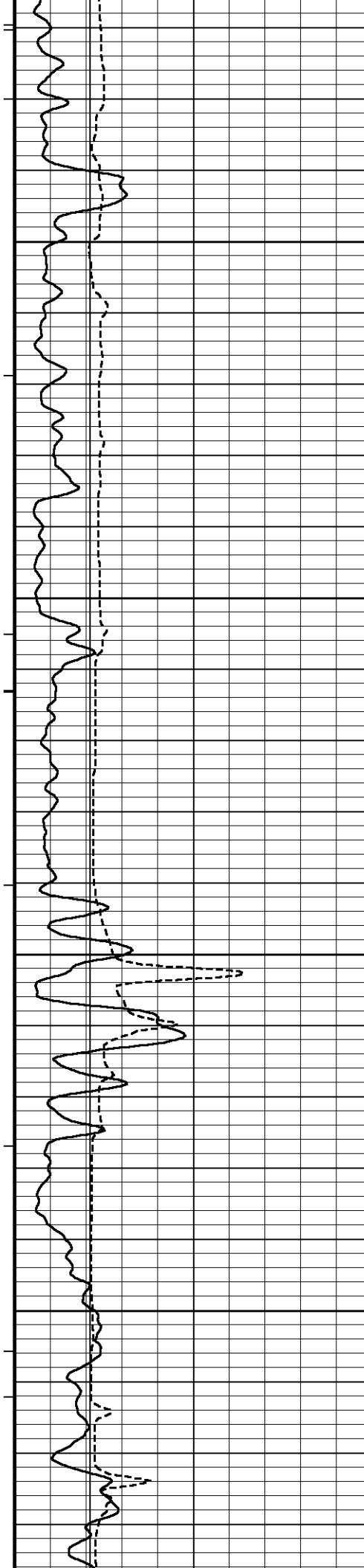
7950

8000

8050

8100



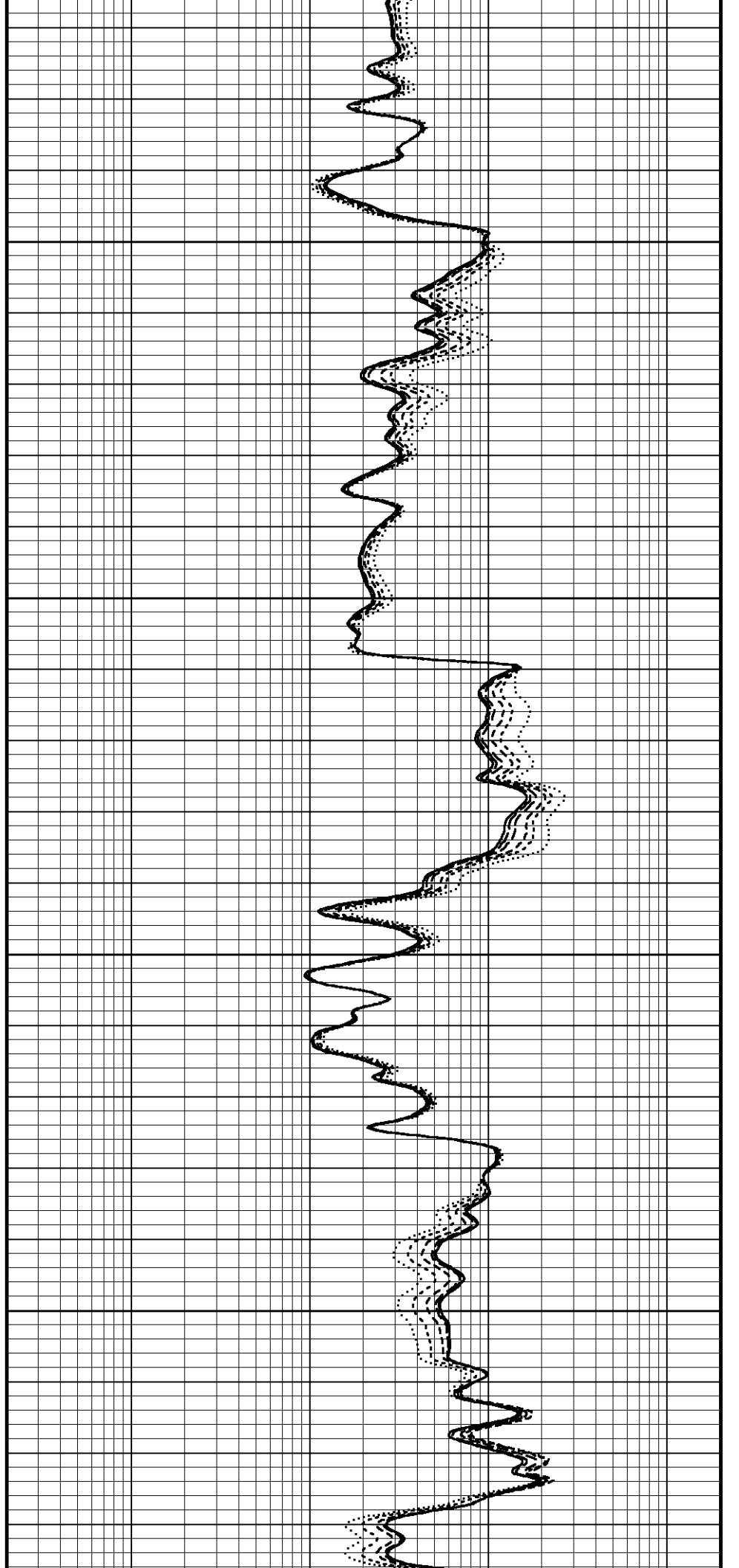


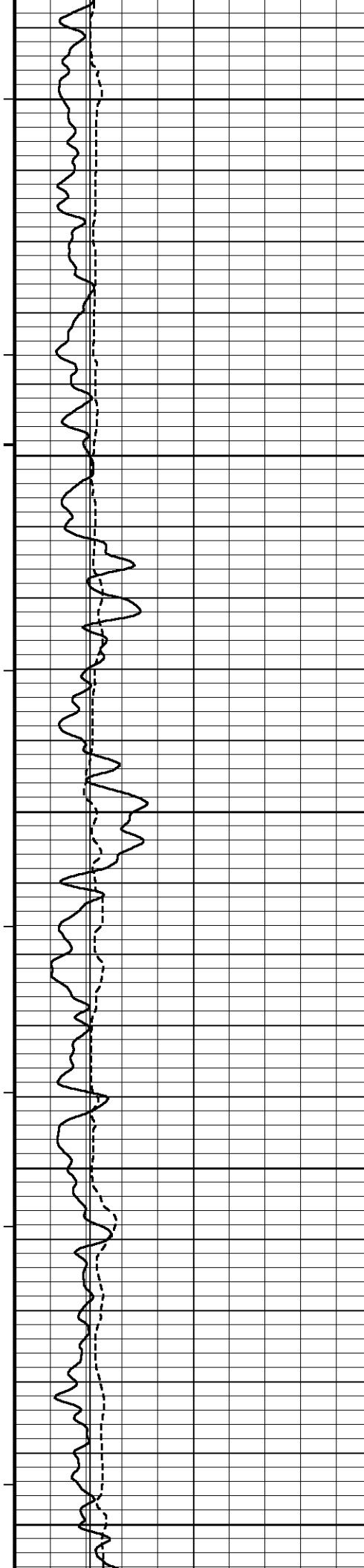
8150

8200

8250

8300





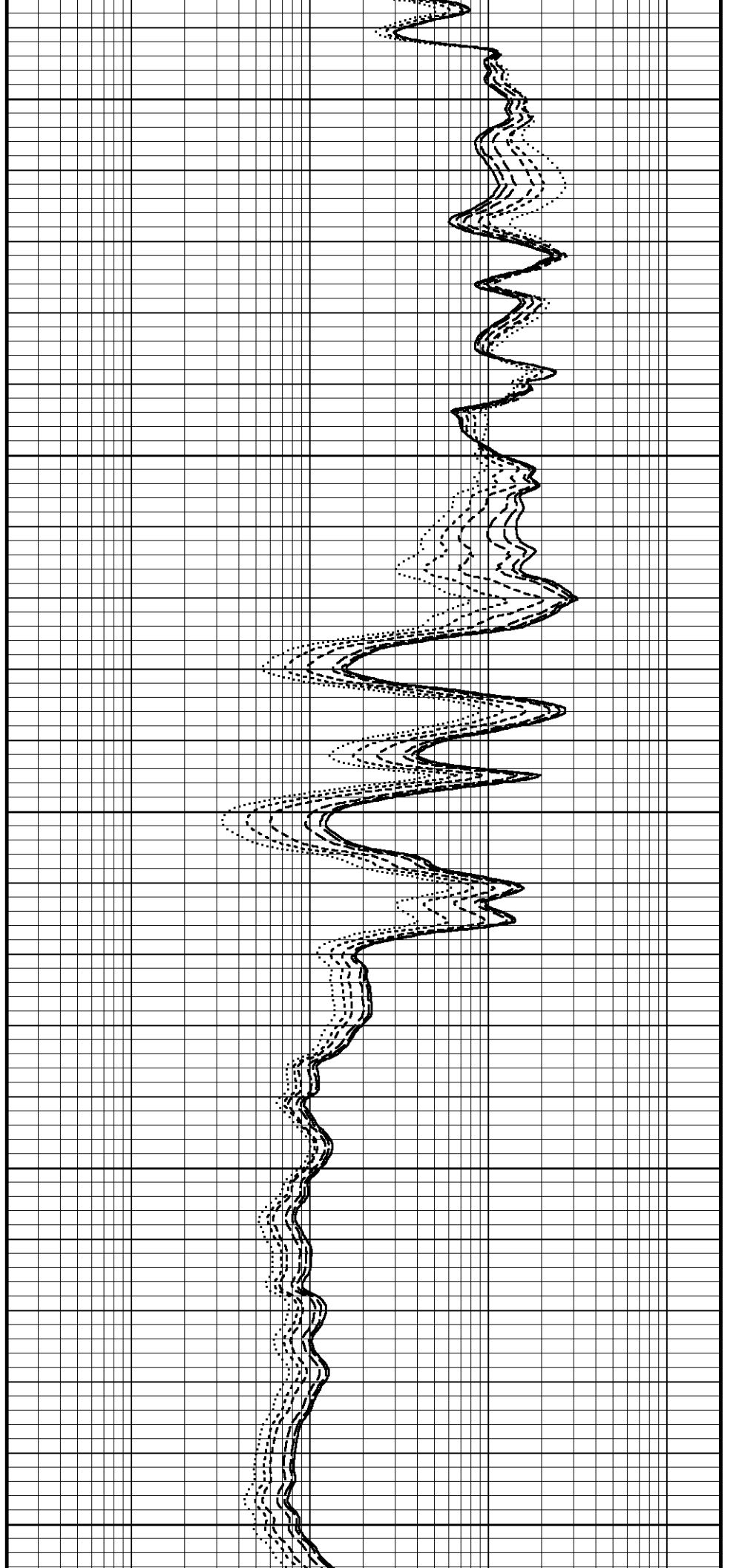
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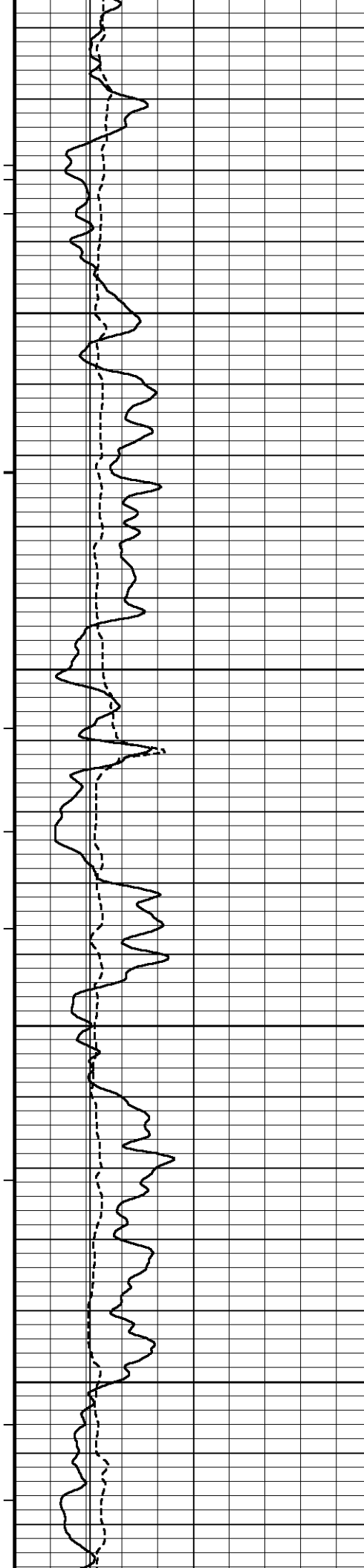
8400

8450

8500

8550



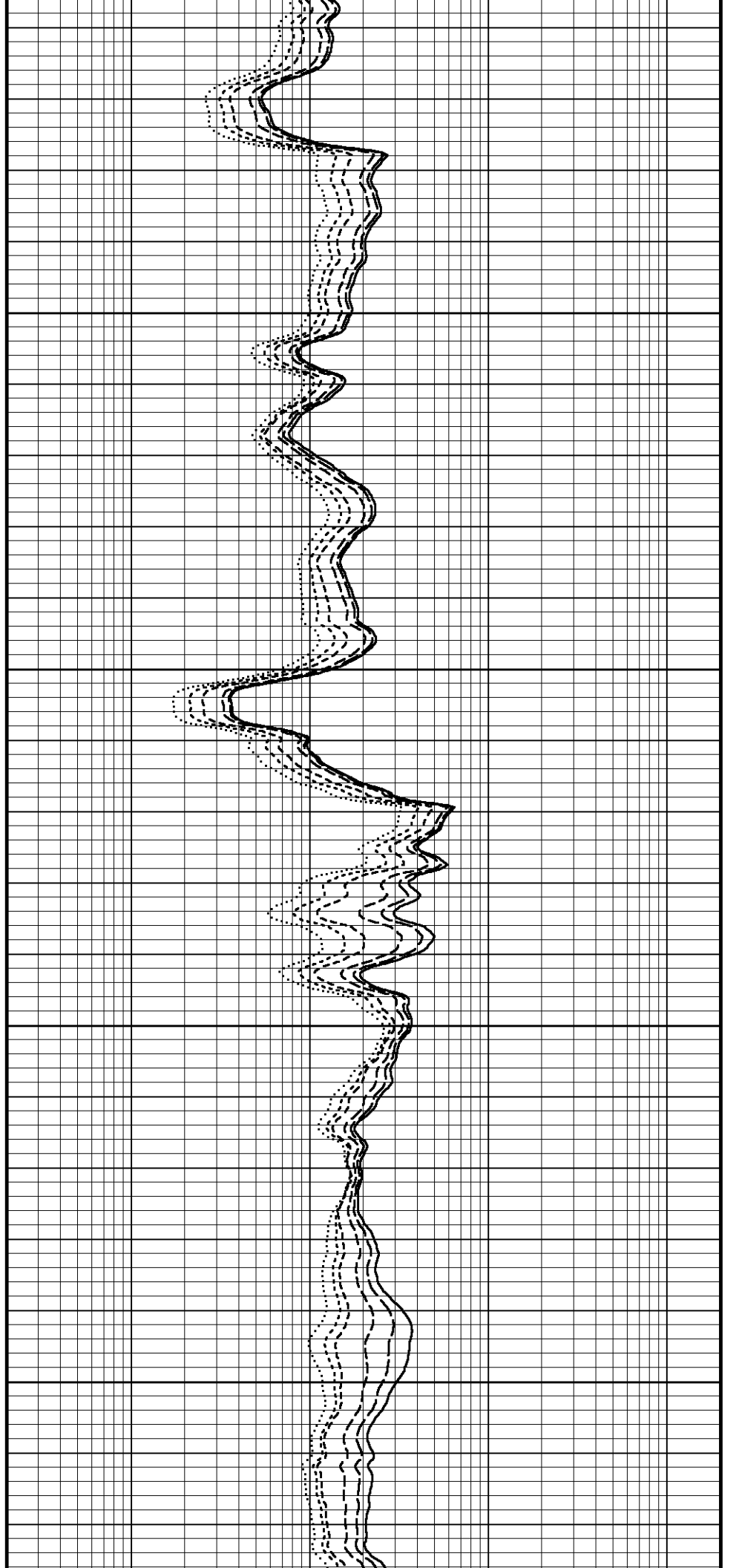


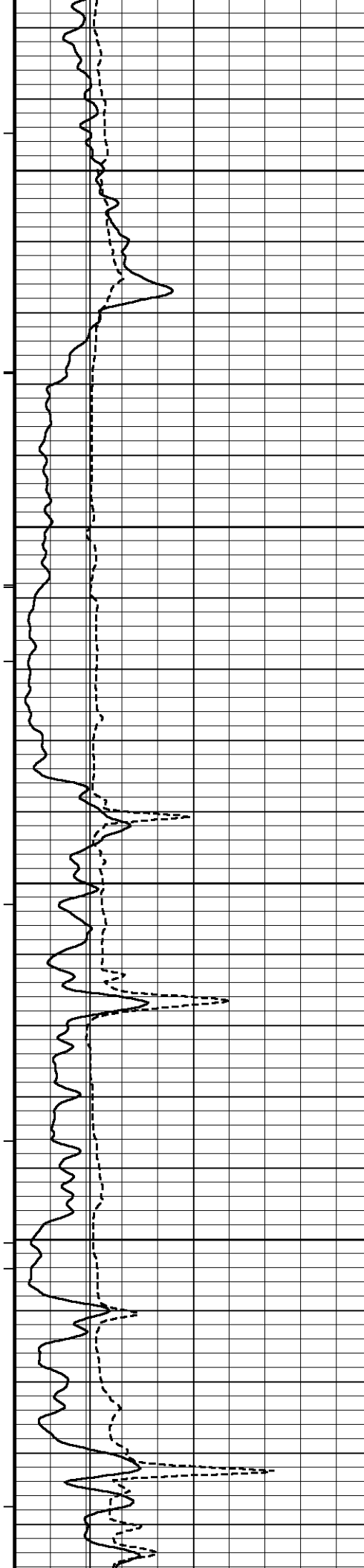
8600

8650

8700

8750



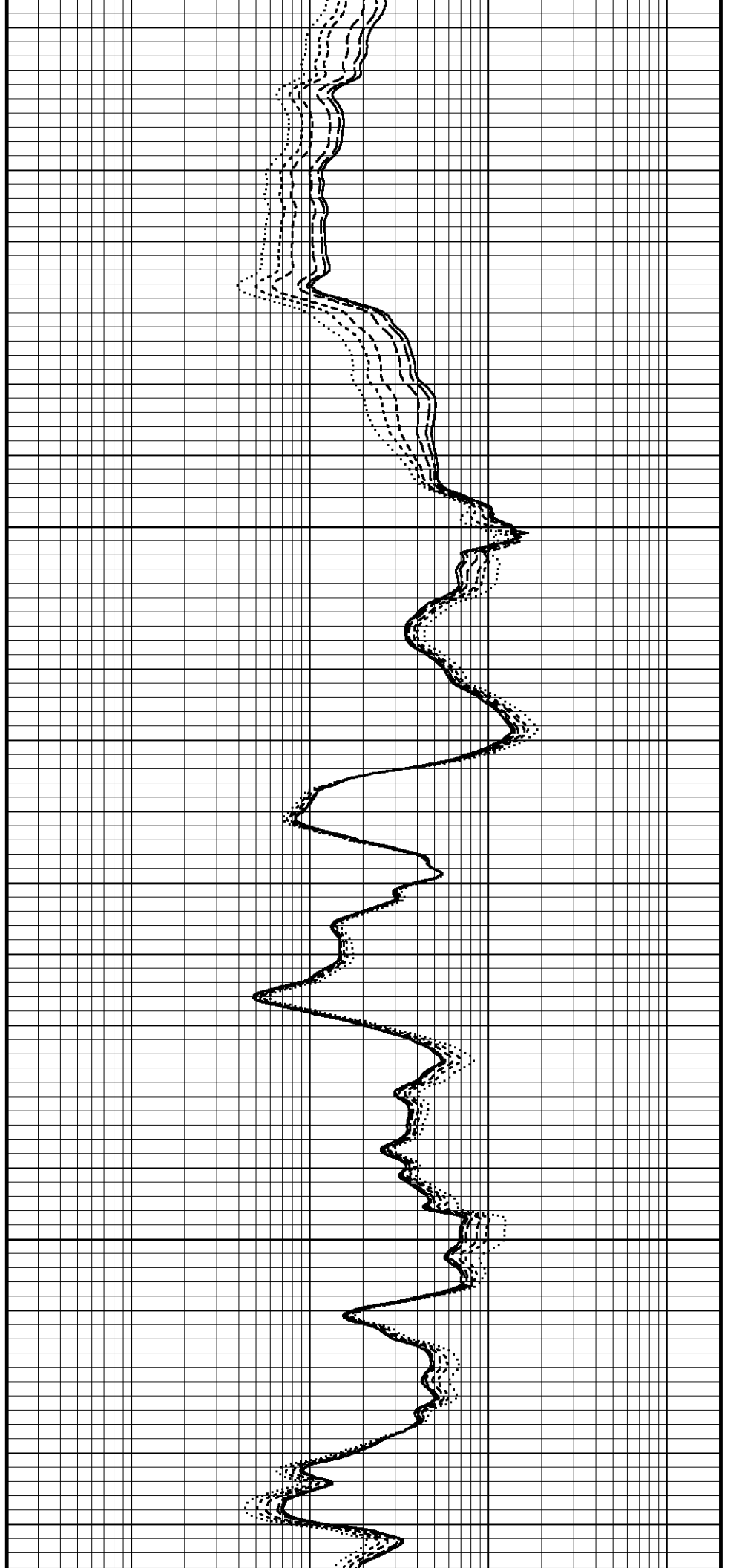


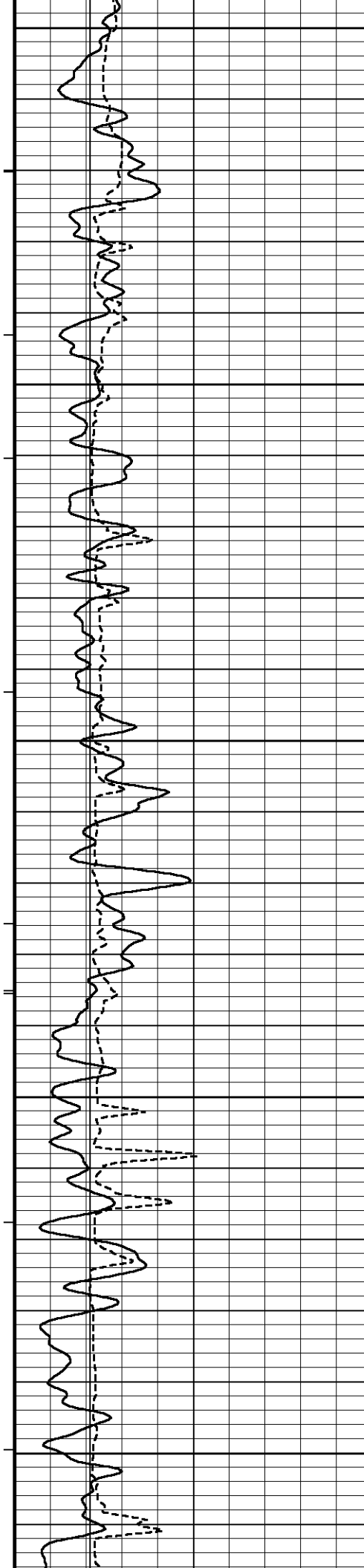
8800

8850

8900

8950





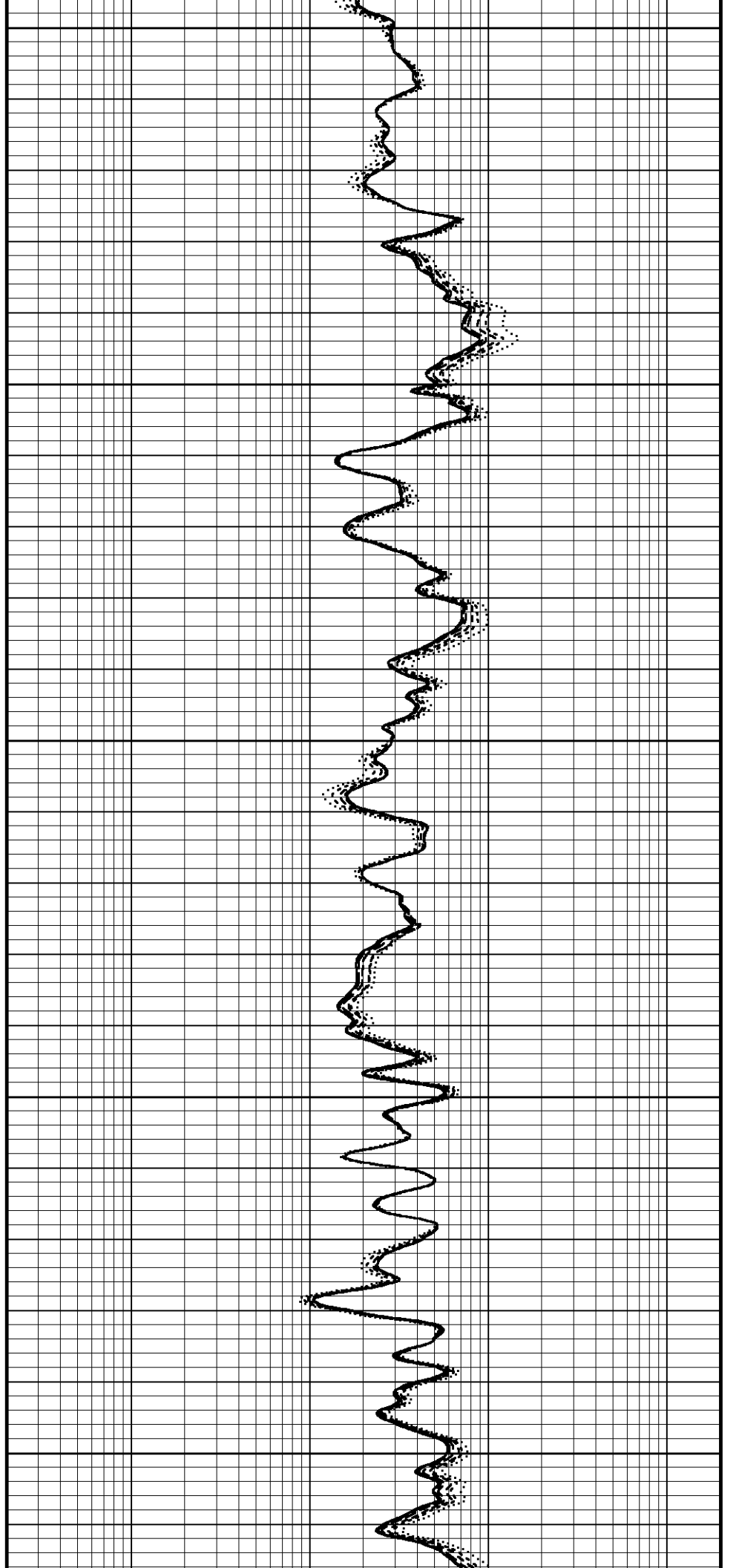
9000

9050

9100

9150

9200



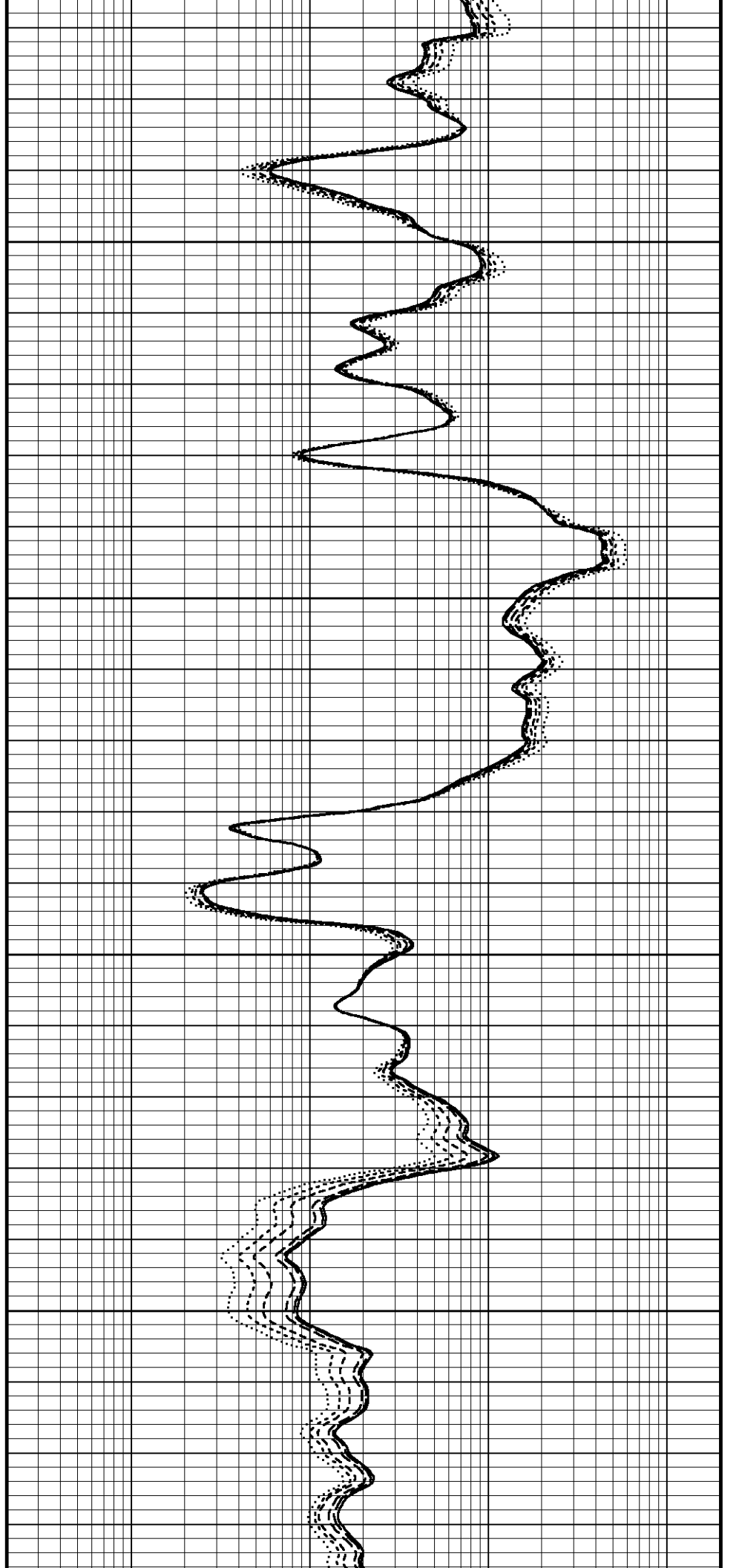


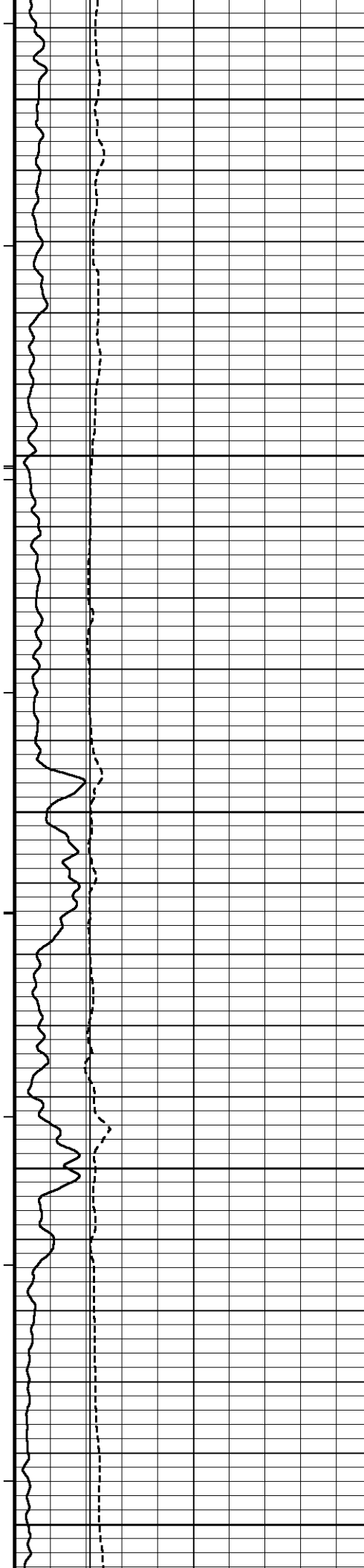
9250

9300

9350

9400





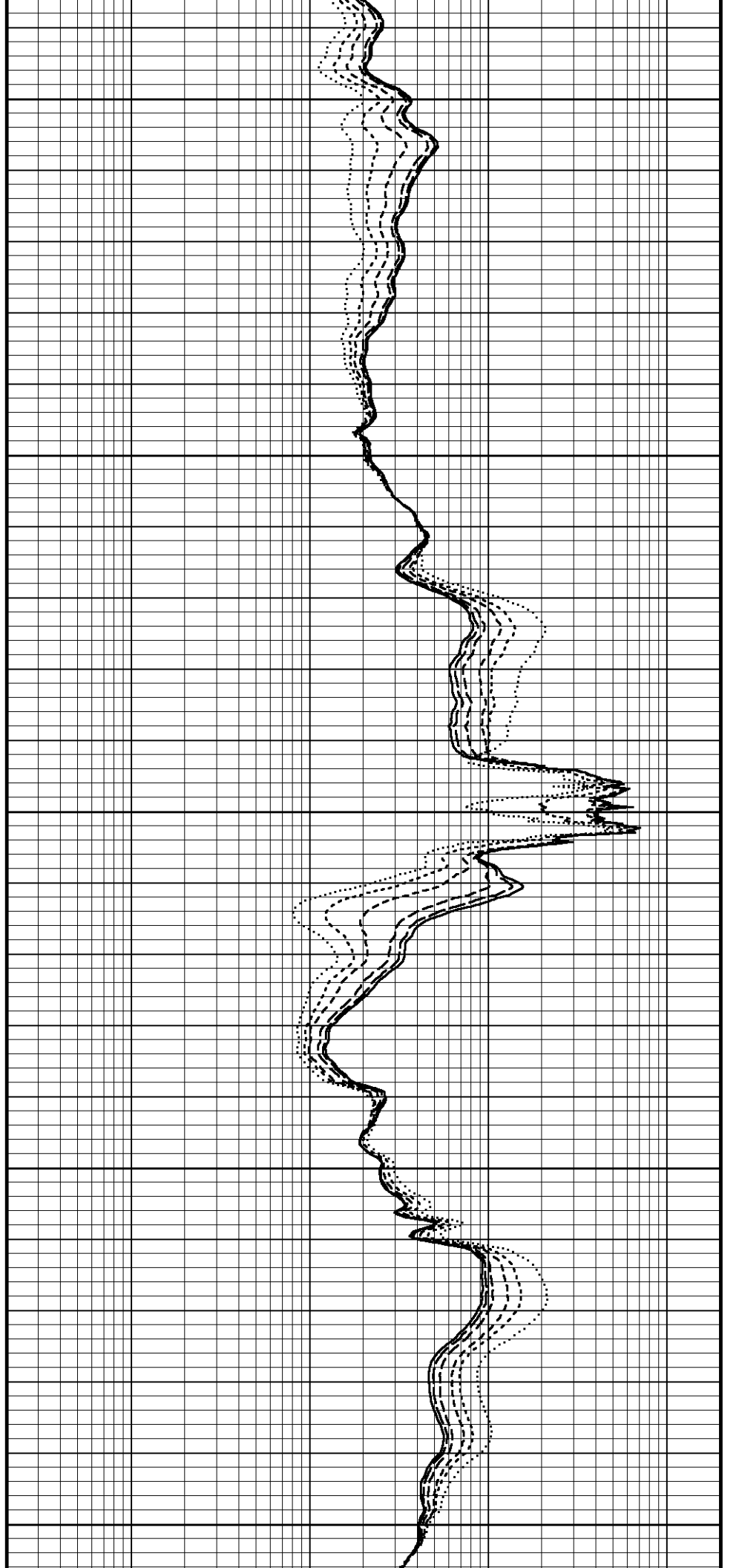
9450

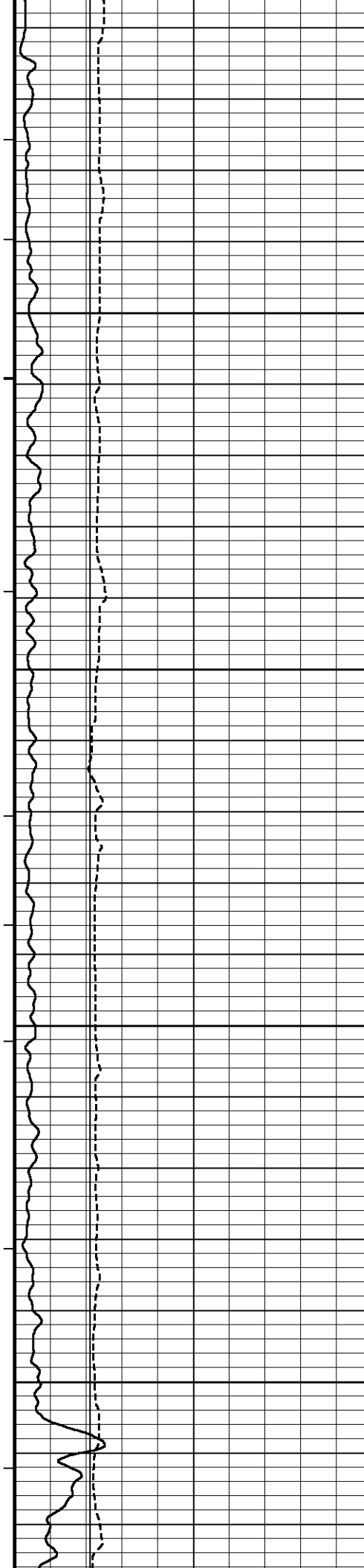
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9550

9600

9650



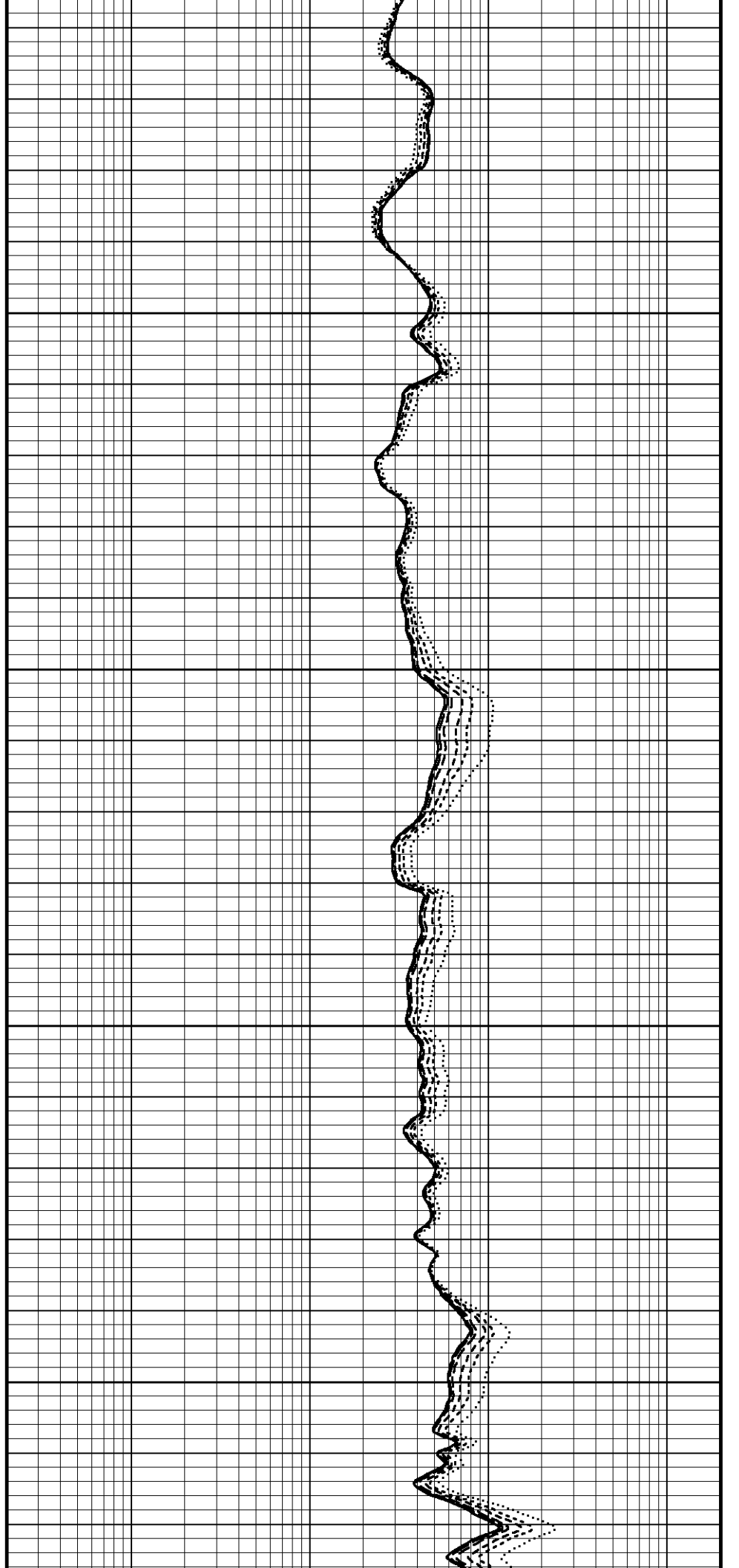


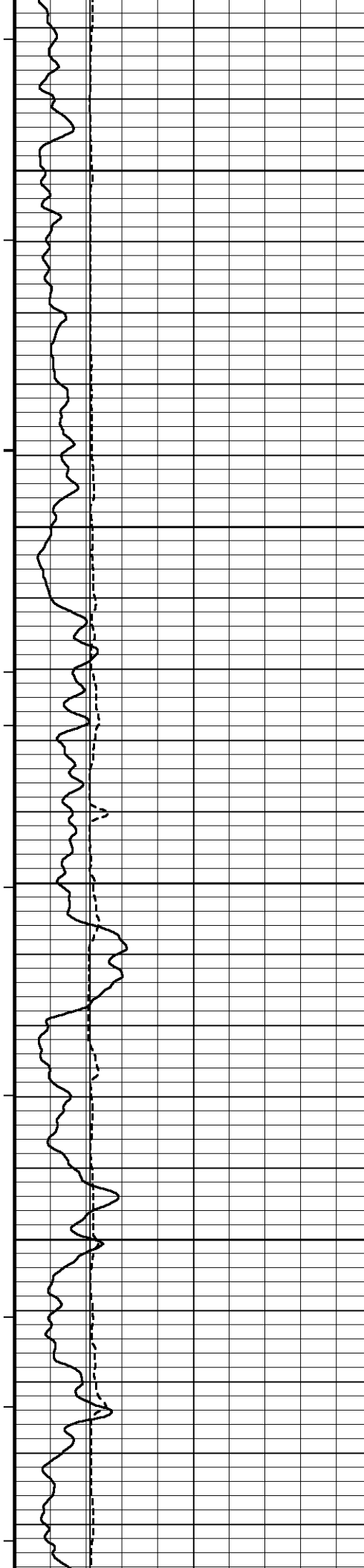
9700

9750

9800

9850



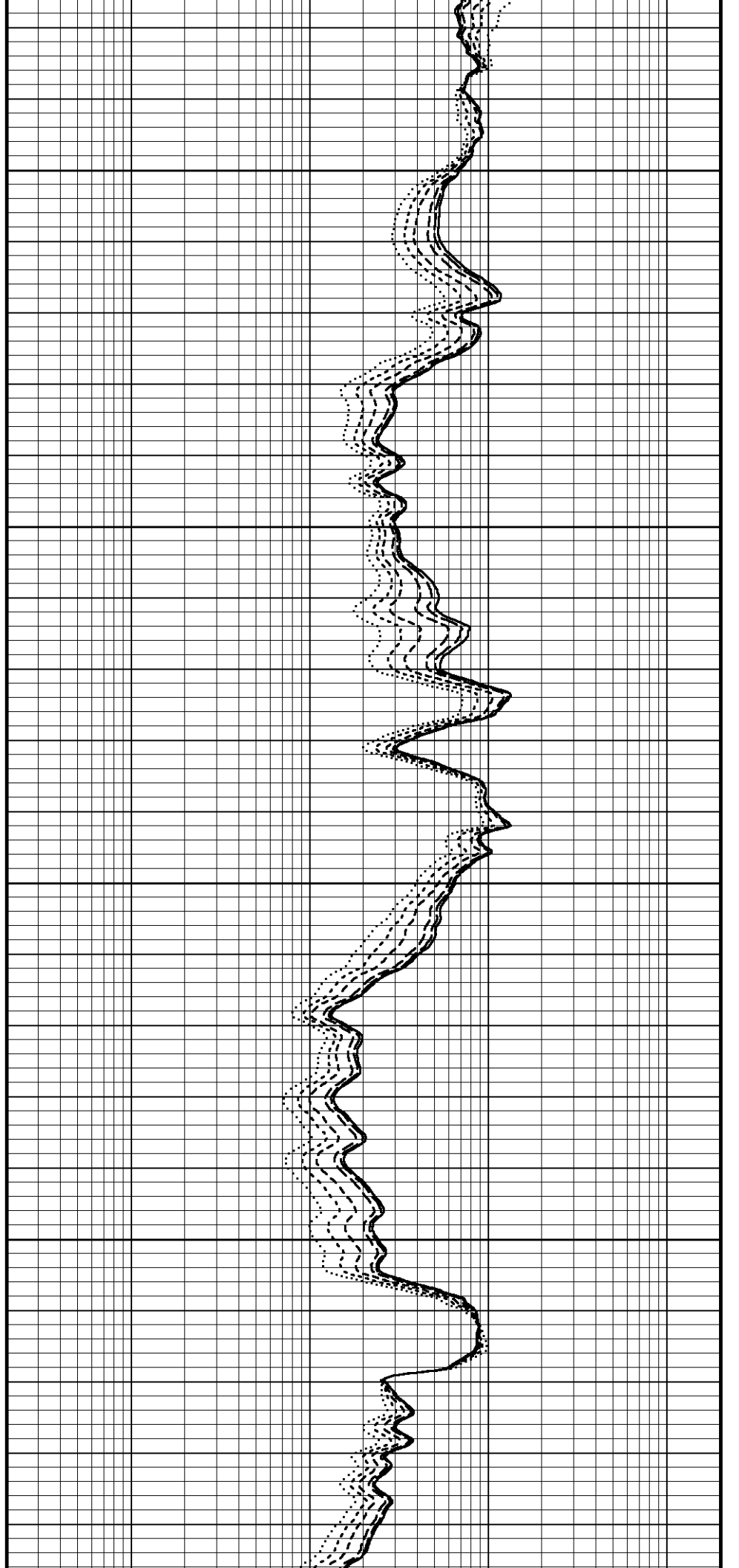


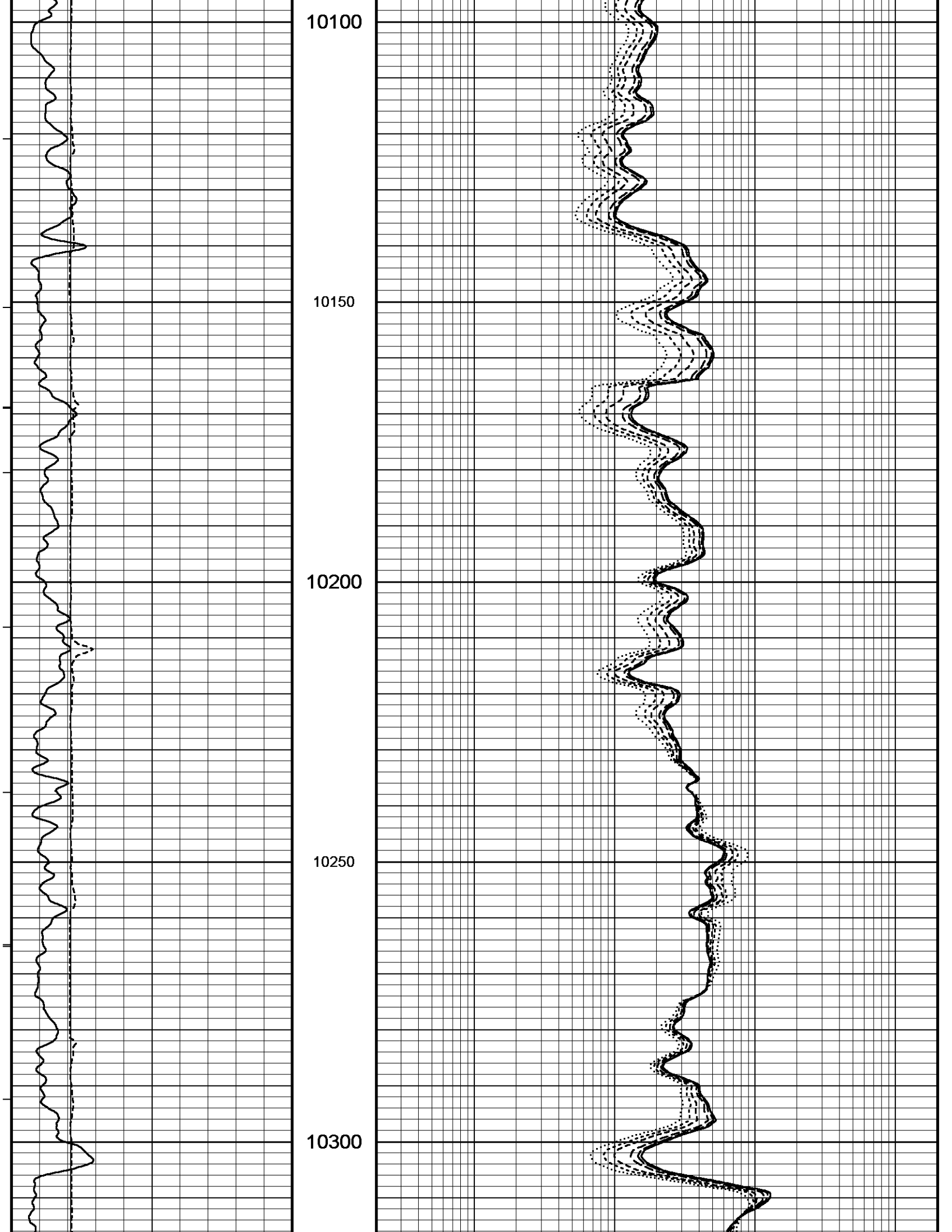
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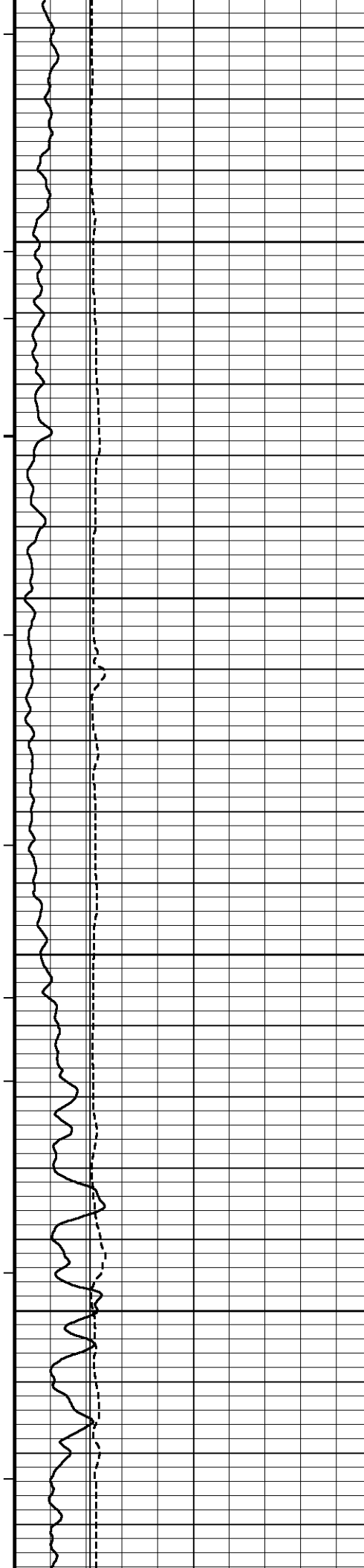
9950

10000

10050





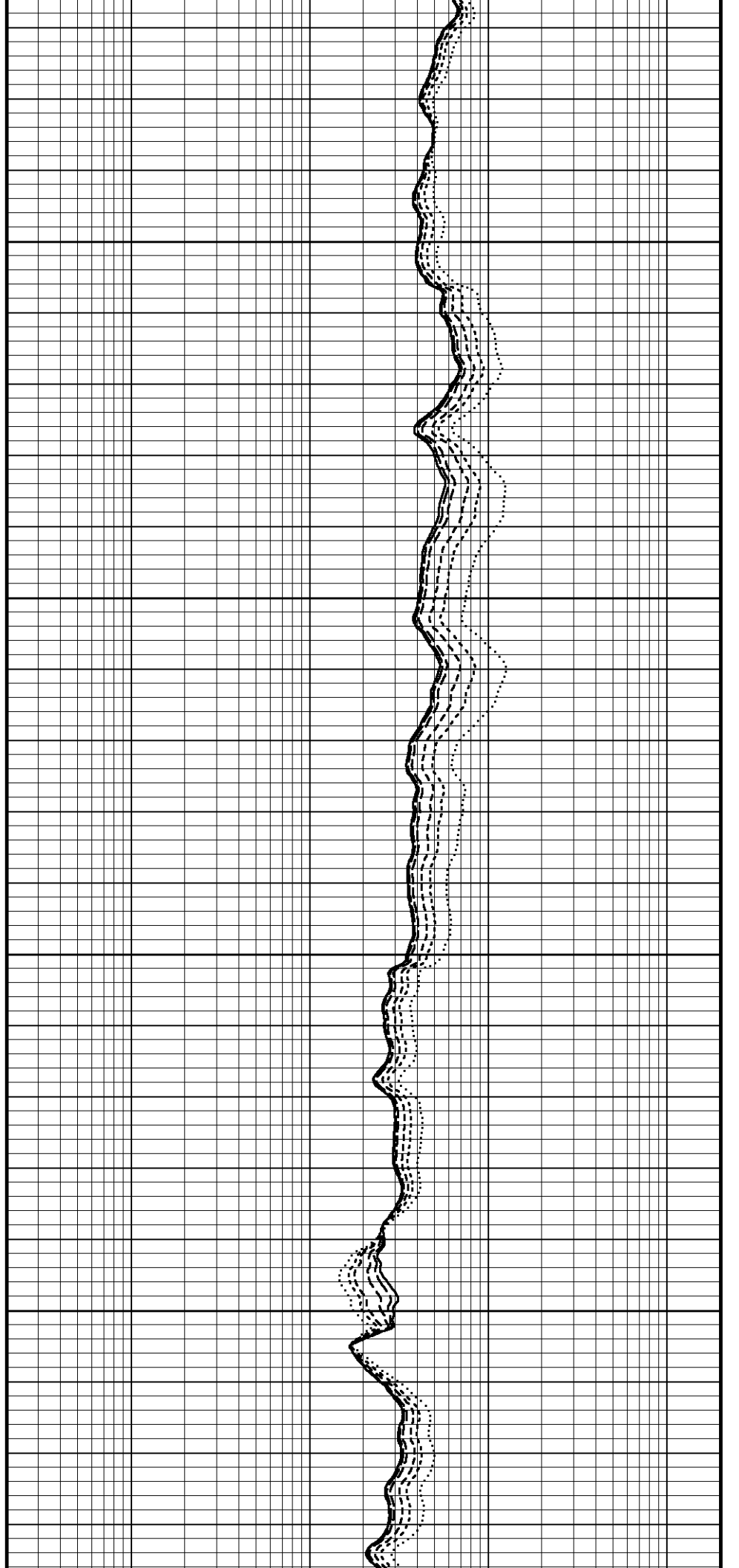


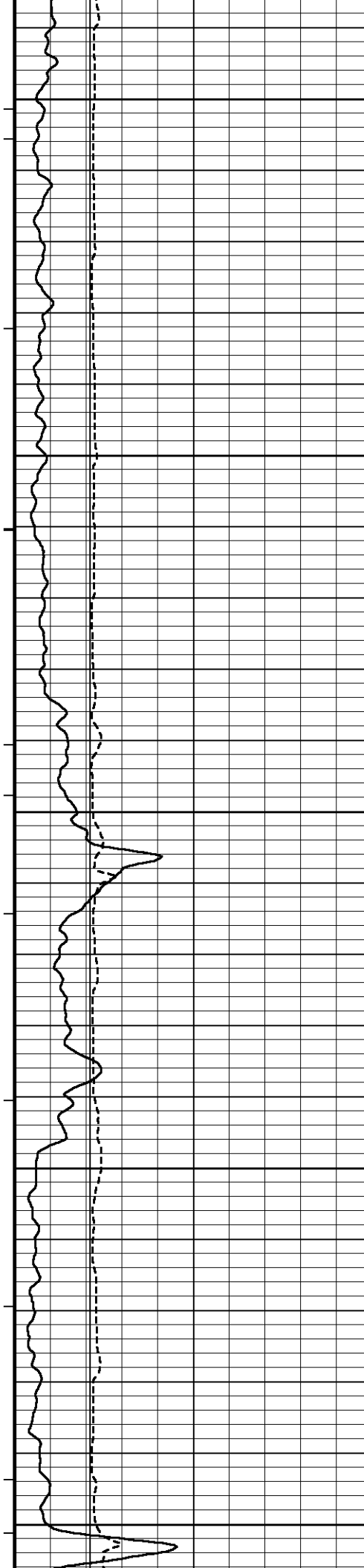
10350

10400

10450

10500





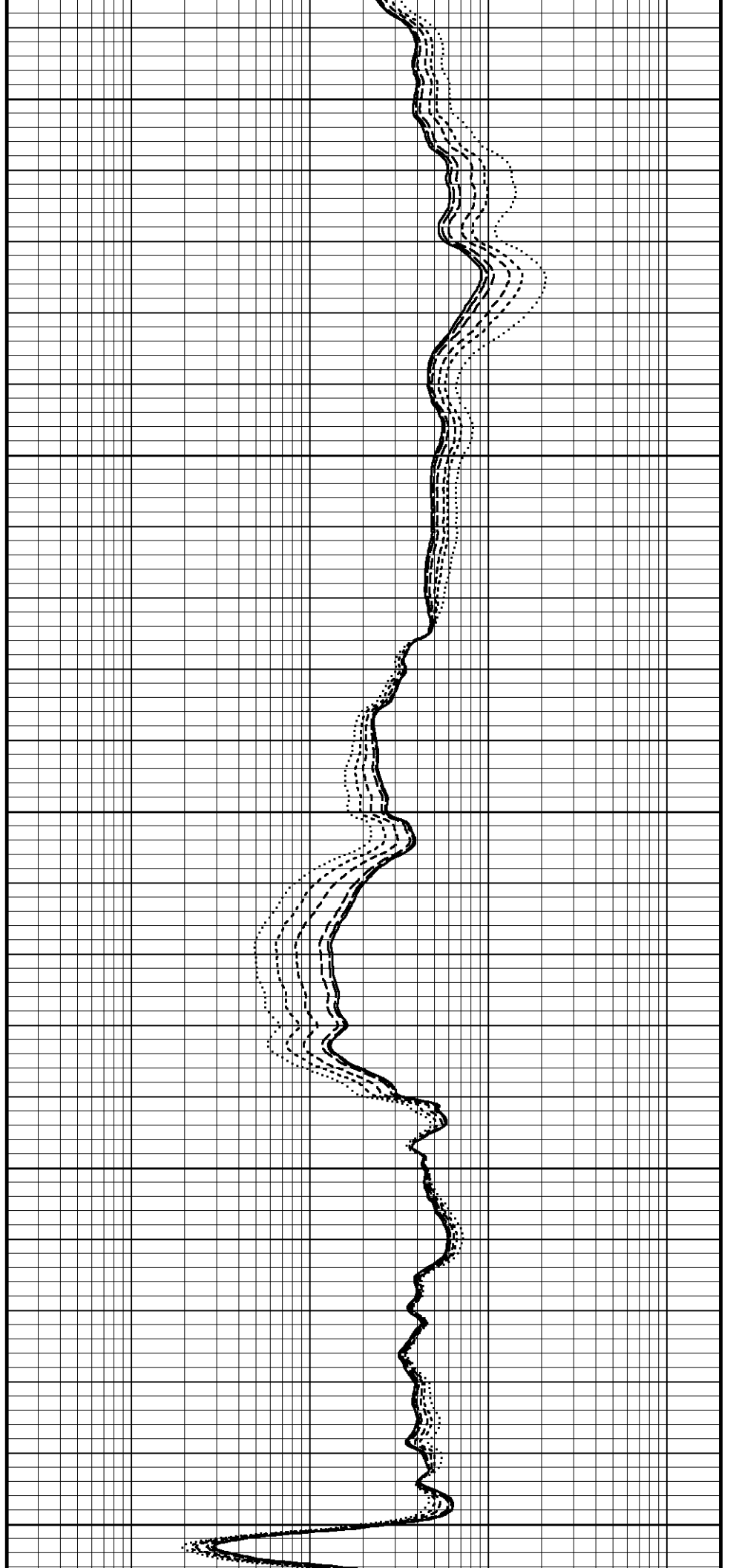
10550

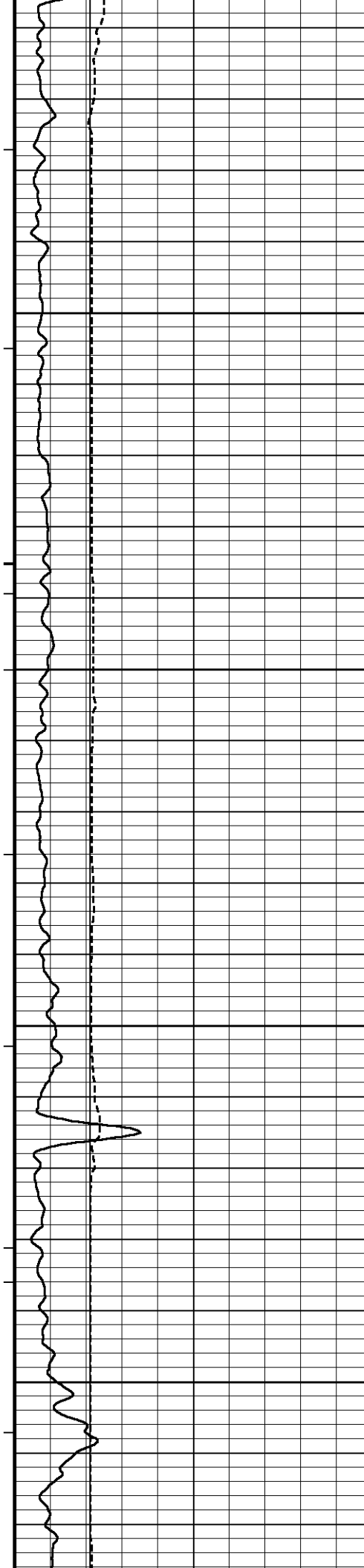
10600

10650

10700

10750



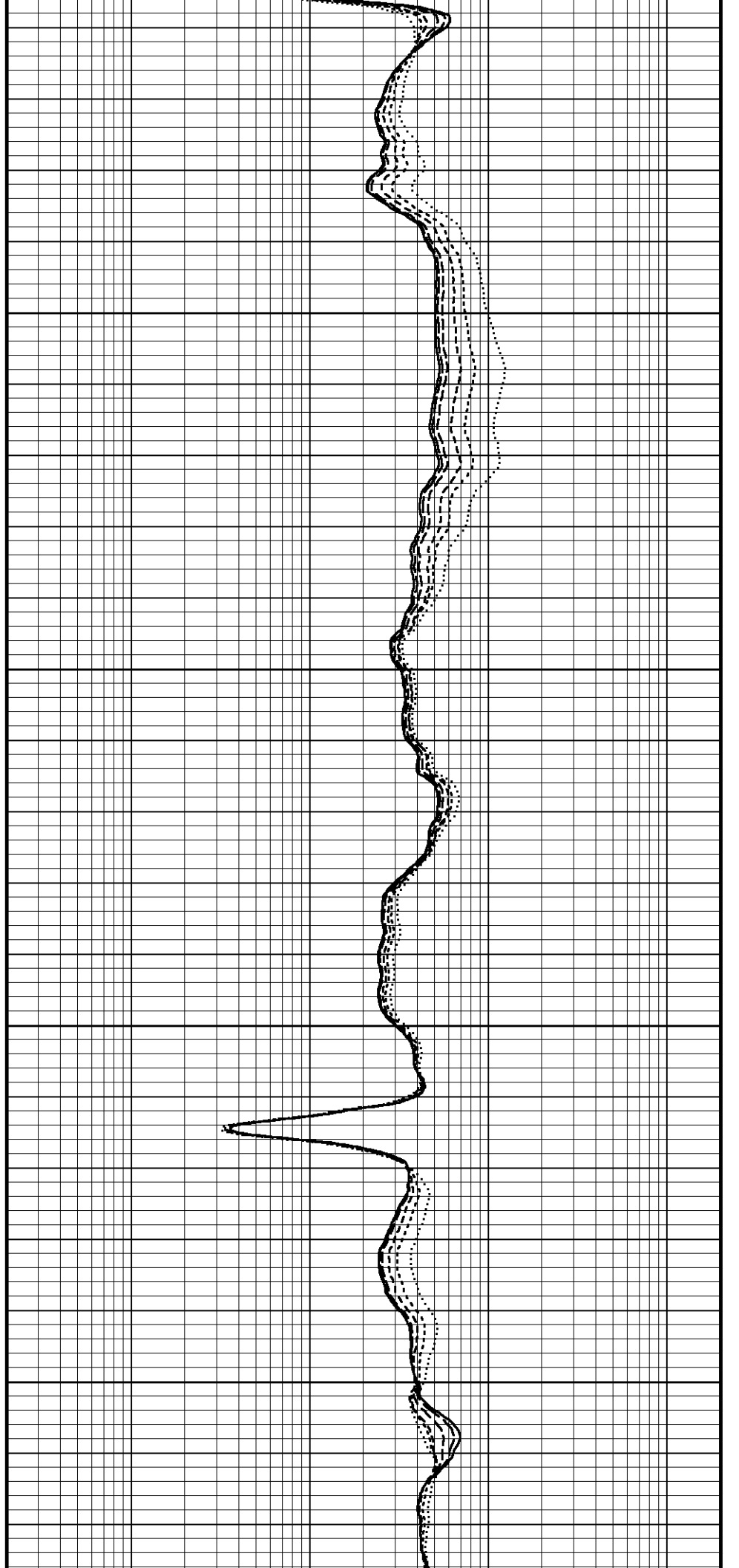


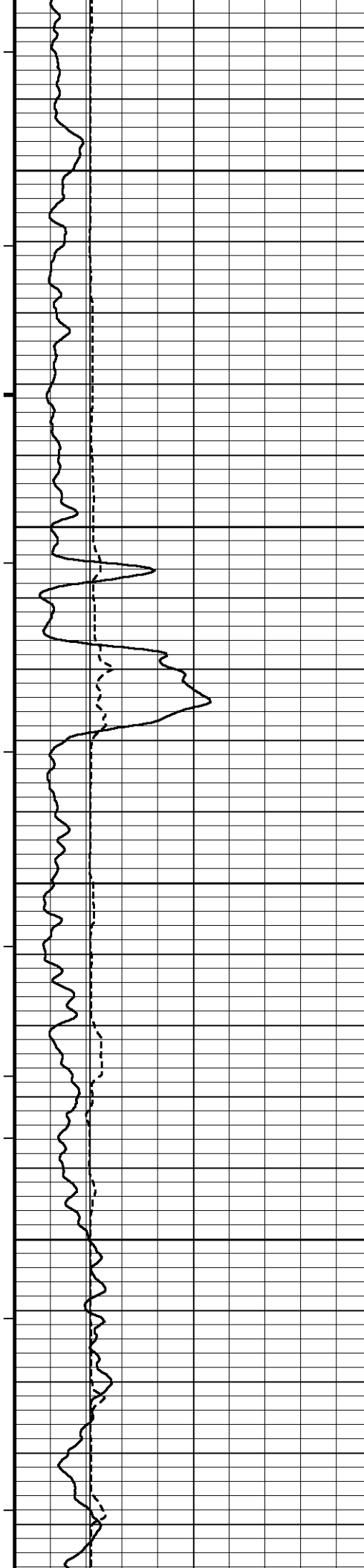
10800

10850

10900

10950



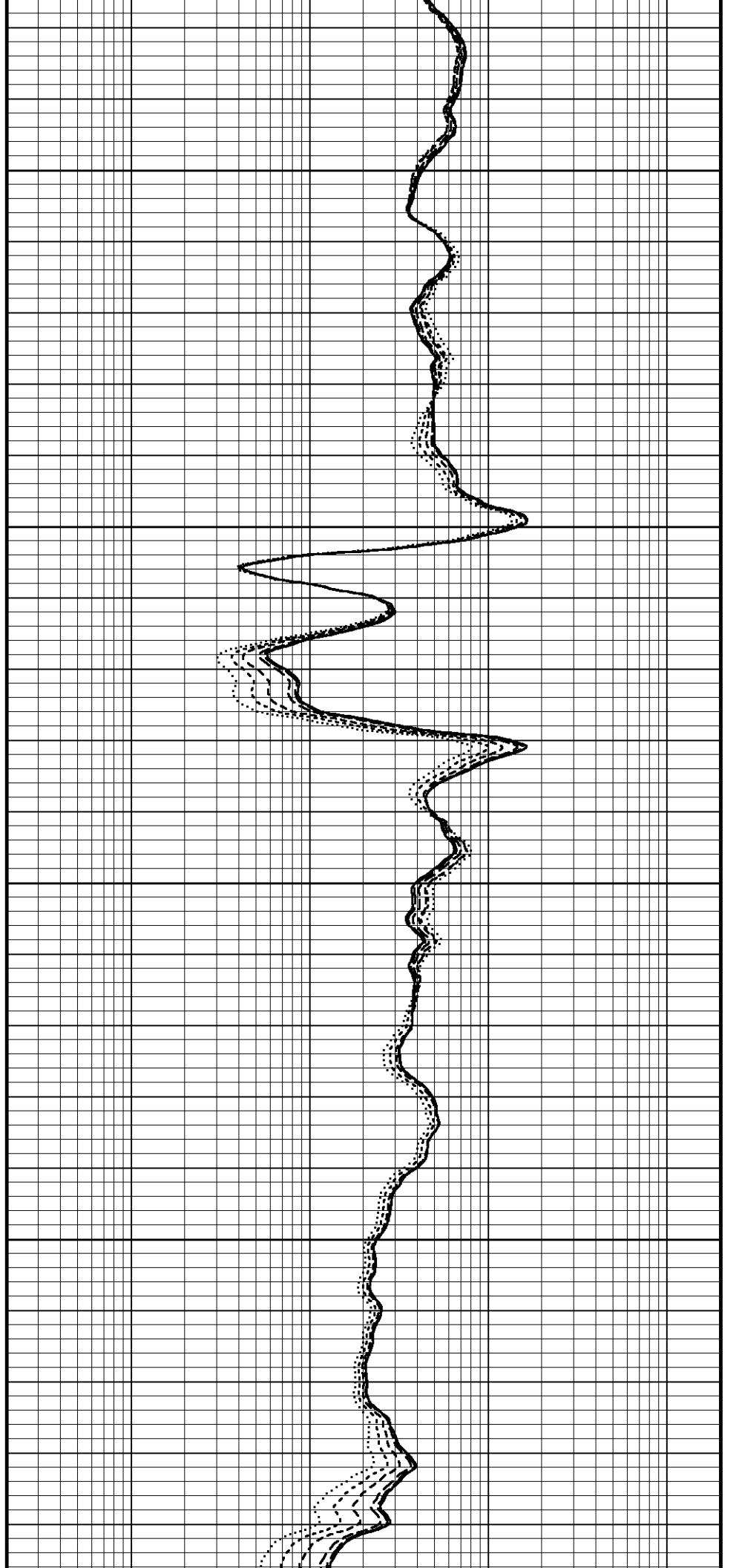


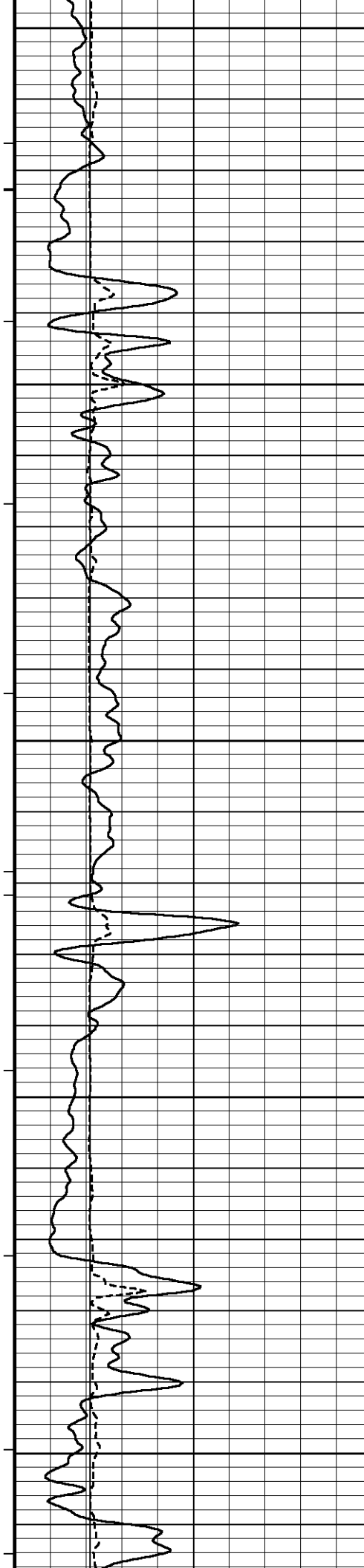
11000

11050

11100

11150





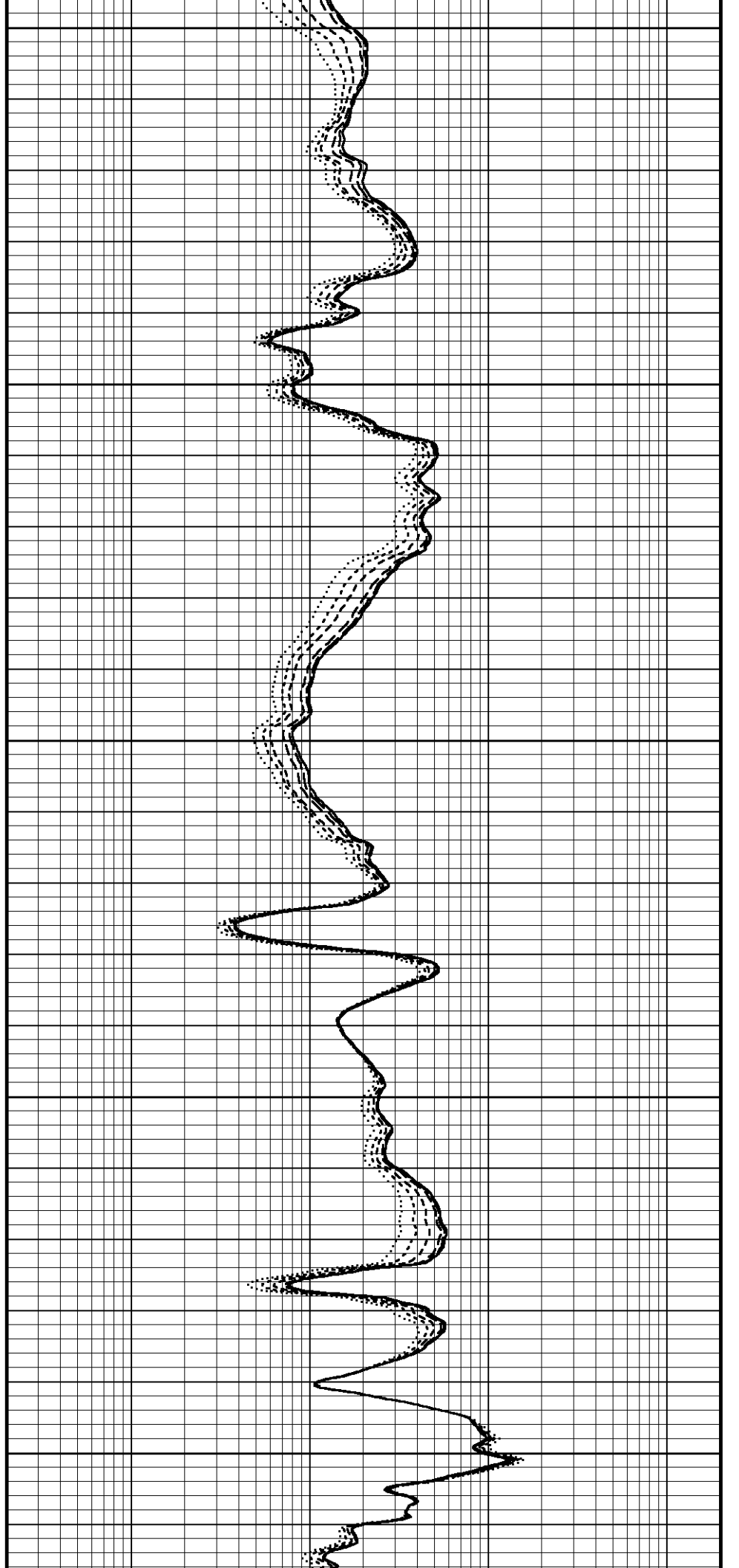
11200

11250

11300

11350

11400



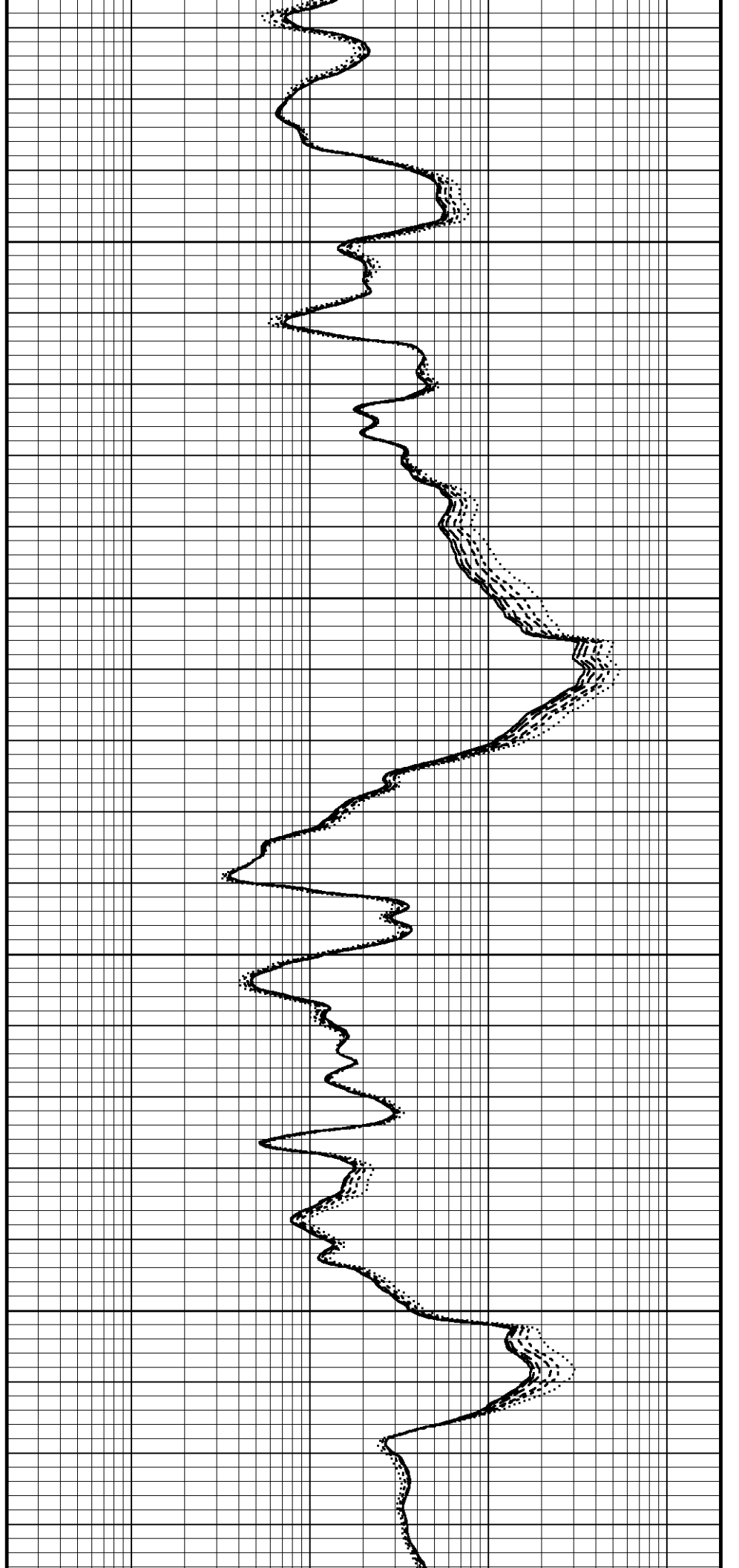


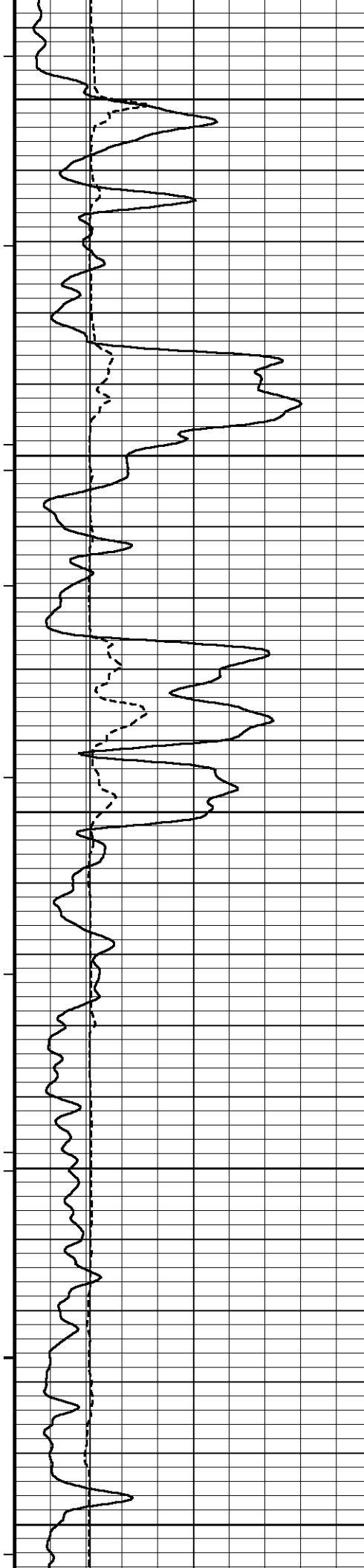
11450

11500

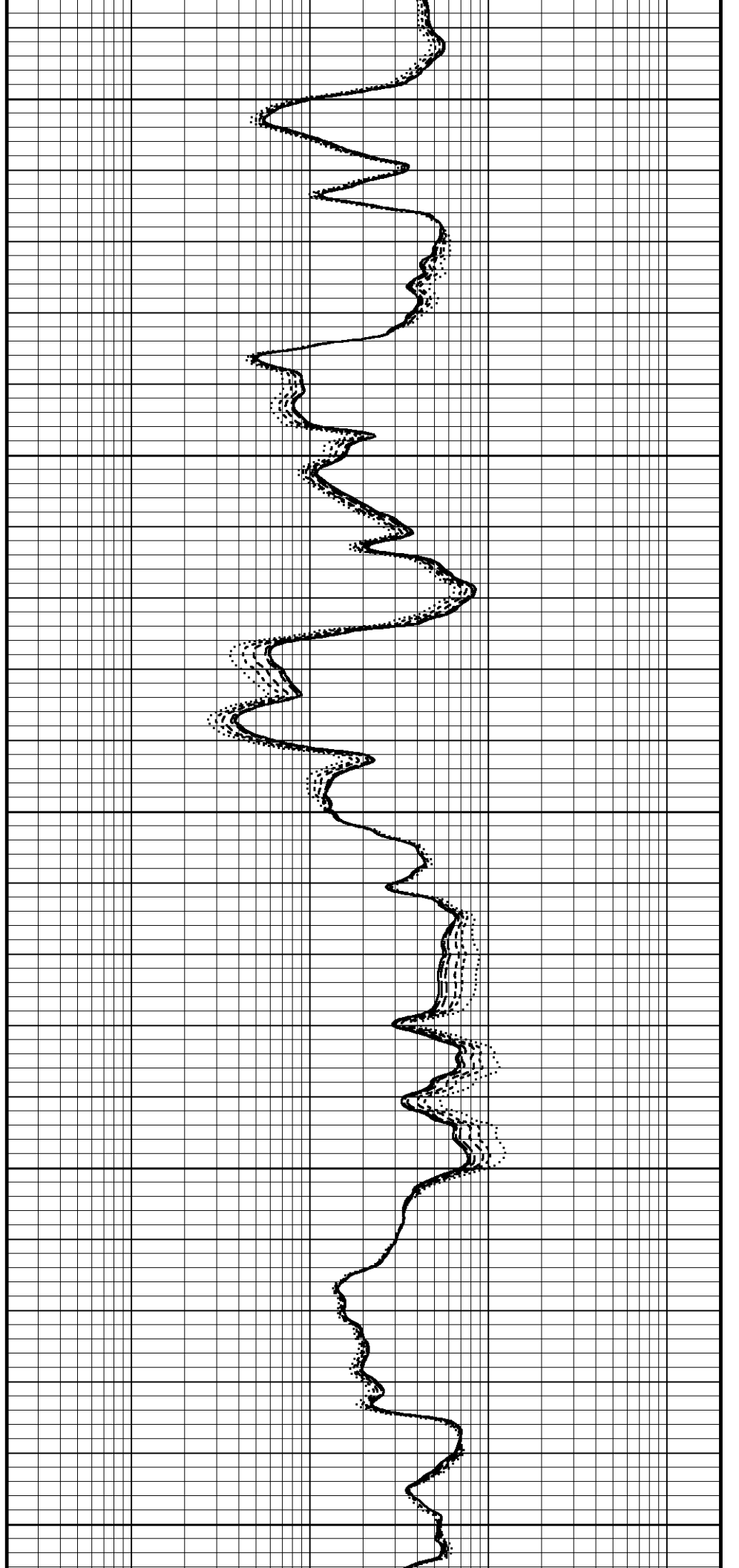
11550

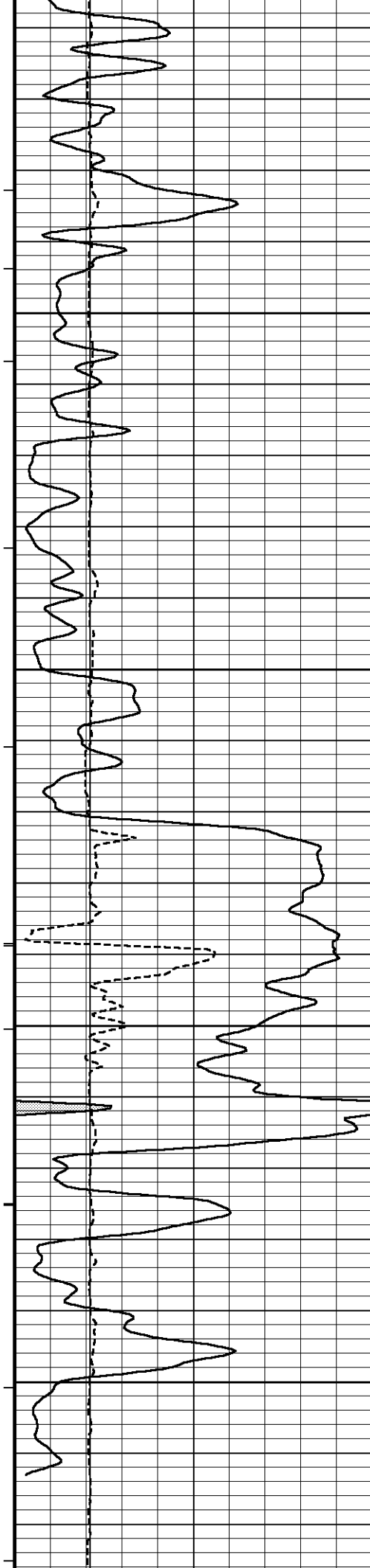
11600





11650
11700
11750
11800
11850



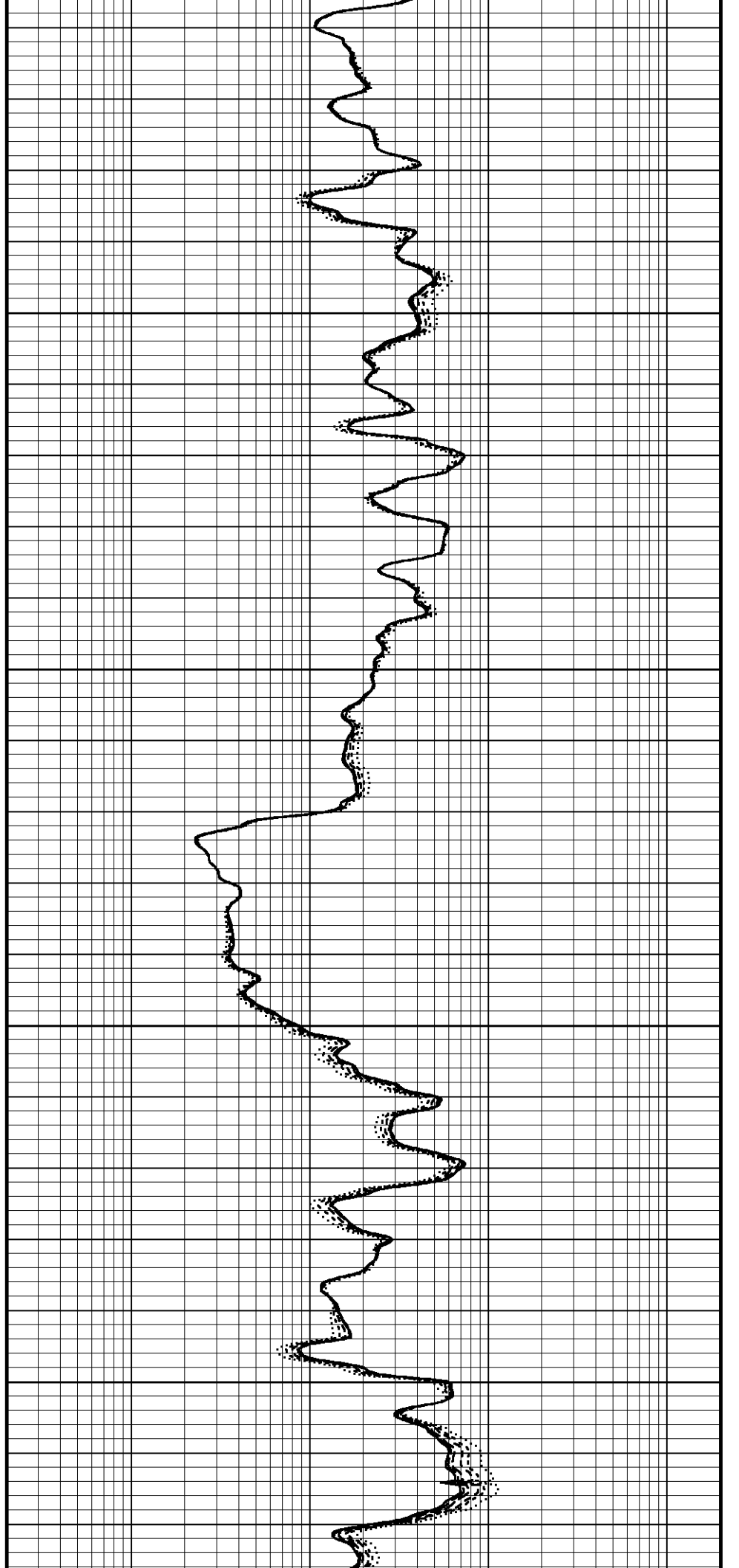


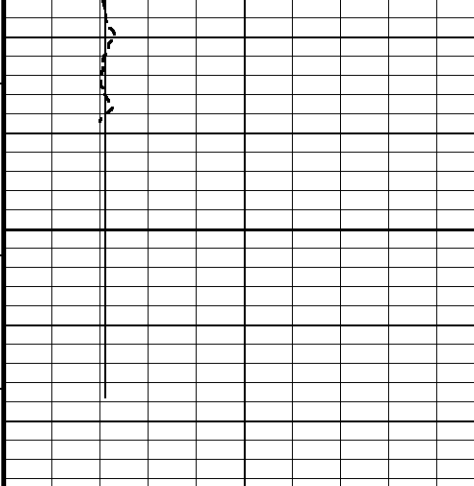
11900

11950

12000

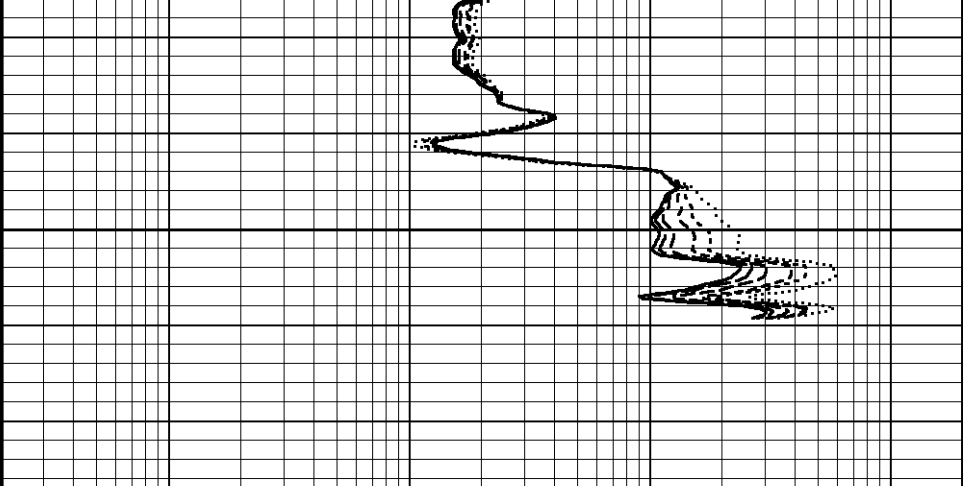
12050





12100

TD



Depth
In
Feet

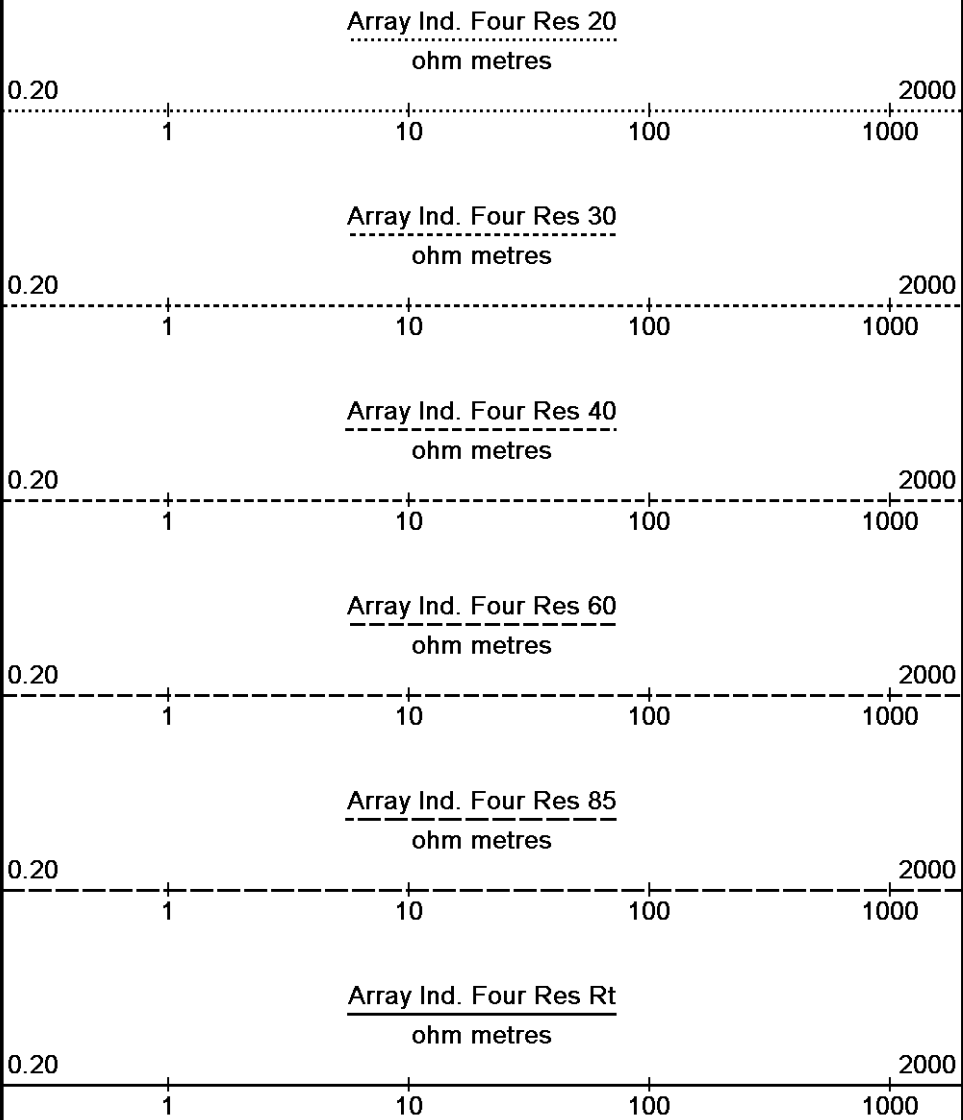
Timing Marks
every 60.0 sec

Gamma Ray		
API		
0	75	150
150	225	300

Density Caliper		
inches		
4	9	14
14	19	24

Bit Size		
inches		
4	9	14

Replay
Scale
1:240



Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 14-APR-2011 03:10
 Filename: C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\36340depth.dta
 Recorded on 14-APR-2011 01:01
 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186

5 INCH MAIN LOG

BEFORE SURVEY CALIBRATION

C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\36340.dta

General Constants All 000

Last Edited on 14-APR-2011,01:58

General Parameters

Mud Resistivity 2.000 ohm-metres
 Mud Resistivity Temperature 76.000 degrees F

Mud Resistivity Temperature 76.000 degrees F
 Water Level 0.000 feet
 Density/Neutron Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters
 HVOL Method Single Caliper
 HVOL Caliper 1 Density Caliper
 HVOL Caliper 2 N/A
 Annular Volume Diameter 4.500 inches
 Caliper for Differential Caliper Density Caliper

Rwa Parameters
 Porosity used Limestone Density Por.
 Resistivity used Array Ind. Four Res Rt
 RWA Constant A 0.610
 RWA Constant M 2.150

Down-hole Tension Calibration SMS 0

Field Calibration on 07-FEB-2006 14:19

Reading No	Measured	Calibrated (lbs)
1	16292.42	0.00
2	17072.79	420.00

Strain Gauge Constants SER-A 146

Last Edited on

Atmospheric Pressure 14.70 psi
 Serial Number 0
 Calibration Date 01-JAN-1998
 Base Check Date
 Dead Weight Serial Number 0
 Dead Weight Gravitational Correction 1.0

Temperature	75.0		150.0		250.0		350.0		degrees F
	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	
Pressure psia									
0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10000.0	0.000		0.000		0.000		0.000		

Gamma Calibration MGS-C.J 108

Field Calibration on 12-APR-2011,23:14

	Measured	Calibrated (API)
Background	41	28
Calibrator (Gross)	1372	925
Calibrator (Net)	1331	897

Gamma Constants MGS-C.J 108

Last Edited on 12-APR-2011,23:14

Gamma Calibrator Number 056
 Mud Density 1.01 gm/cc
 Caliper Source for Processing Density Caliper
 Tool Position Centred
 Concentration of KCl 0.00 kppm

SP Calibration MGS-C.J 108

Field Calibration on 13-APR-2011,01:21

	Measured	Calibrated (mV)
Reference 1	100.0	100.0
Reference 2	-100.0	-100.0

High Resolution Temperature Calibration MGS-C.J 108

Field Calibration on 13-APR-2011,01:21

	Measured	Calibrated(Deg F)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MGS-C.J 108

Last Edited on

Pre-filter Length 11

Neutron Calibration MDN-A.B 165

Base Calibration on 18-JAN-2011 09:45

Field Check on 12-APR-2011,23:35

Base Calibration

Base Calibration	Measured	Calibrated (cps)
	Near Far	Near Far
	2962 92	3714 110
Ratio	32.226	33.764
Field Calibrator at Base		Calibrated (cps)
		1292 1857
Ratio		0.696
Field Check		Calibrated (cps)
		1294 1854
Ratio		0.698

Neutron Constants MDN-A.B 165		Last Edited on 12-APR-2011,23:42	
Neutron Source Id	p31112b		
Neutron Jig Number	5917ne		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.14	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	Constant Value		
Formation Pressure	0.00	kpsi	
Temperature Source	MGS External Temperature		
Temperature	N/A	degrees F	
Mud Salinity	0.00	kppm	
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

Induction Calibration MAI-B.J 392		Base Calibration on 07-MAR-2011,14:45			
		Field Check on 12-APR-2011 23:32			
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	17.1	467.1	9.3	966.2	
2	6.1	375.5	7.6	821.4	
3	3.2	259.2	5.2	566.0	
4	2.2	129.4	2.6	279.2	
Array Temperature	74.7		Deg F		
Channel		Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High	
1	0.0	0.0	13.0	3890.3	
2	0.0	0.0	30.8	3591.7	
3	0.0	0.0	29.2	3050.5	
4	0.0	0.0	19.5	2141.0	
Deep	0.0	0.0	17.4	2000.9	
Medium	0.0	0.0	43.2	3975.1	
Shallow	0.0	0.0	46.6	5307.3	
Array Temperature	0.0		67.1	Deg F	

Induction Constants MAI-B.J 392		Last Edited on 14-APR-2011,03:04	
Induction Model	RtAP-WBM		
Caliper for Borehole Corr.	Density Caliper		
Hole Size for Borehole Correction	N/A	inches	
Tool Centred	No		
Stand-off Type	Fins		
Stand-off	0.50	inches	
Number of Fins on Stand-off	6.0000		
Stand-off Fin Angle	60.00	degrees	
Stand-off Fin Width	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MGS External Temperature		
Squasher Start	0.0080	mhos/metre	
Squasher Offset	N/A		

Squasher Onset

N/A

mmhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-B.J 392

Field Calibration on 27-SEP-2010,09:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-B.J 392

Last Edited on

Pre-filter Length 11

Caliper Calibration MPD-B 166

Base Calibration on 04-FEB-2011,04:24
Field Calibration on 12-APR-2011,23:37

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13324	4.01
2	22796	5.96
3	32616	7.98
4	42176	9.86
5	52894	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.08	6.00

Photo Density Calibration MPD-B 166

Base Calibration on 31-MAR-2011,23:58
Field Check on 12-APR-2011 23:24

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	48644	24559	59869	31110
Reference 2	20824	2451	24557	2522

Field Check at Base

1194.7 1301.1

Field Check

1188.8 1292.2

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	219	1062		
Reference 1	18351	48453	0.383	0.369
Reference 2	5790	20687	0.284	0.271

Field Check at Base 218.6 1061.9

Field Check 215.7 1058.8

Density Constants MPD-B 166

Last Edited on 12-APR-2011,23:15

Density Source Id		
Nylon Calibrator Number		
Aluminium Calibrator Number		
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.01	gm/cc
Mud Density Z/A Multiplier	1.10	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Advanced	
Matrix Density (gm/cc)	Depth (ft)	
2.71		
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

DOWNHOLE EQUIPMENT

C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\36340.dta

Shuttle Mechanical Release (SMR A)
SMR-A 146 LG: 8.53 ft WT: 77.2 lb OD: 2.52 in

Shuttle Electrical Release
SER-A 146 LG: 6.90 ft WT: 50.7 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub
MBS-G.A 113 LG: 16.66 ft WT: 132.3 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 134 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 108 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

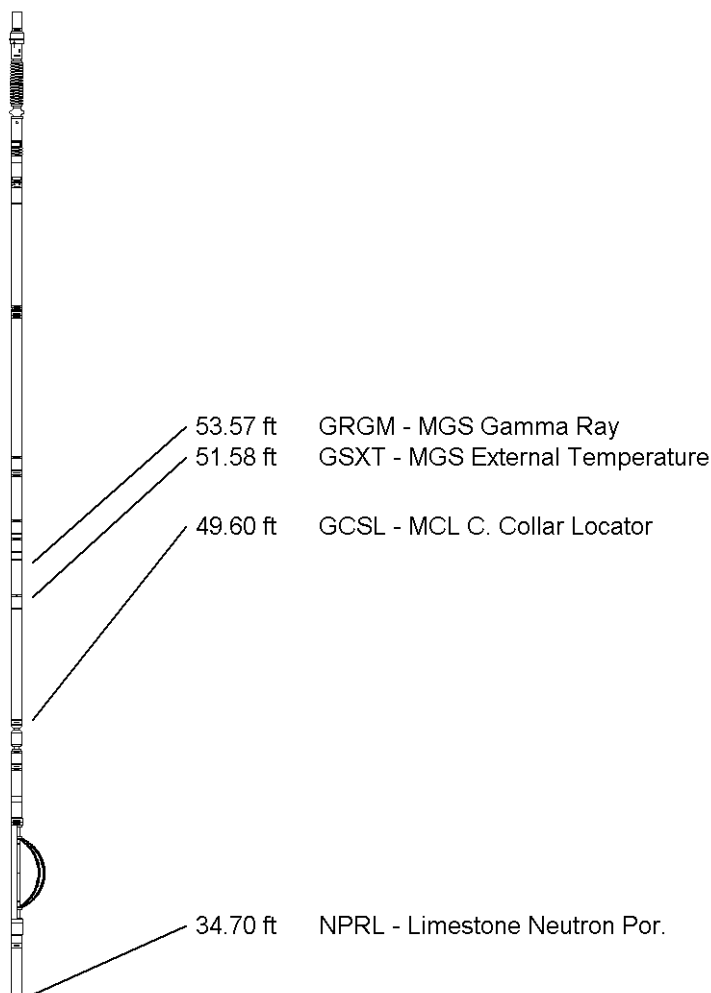
Compact Collar Locator
MCL-B.J 60 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 476 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 442 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 593 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
MDN-A.B 165 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in



Compact Density/Caliper
 MPD-B 166 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 591 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

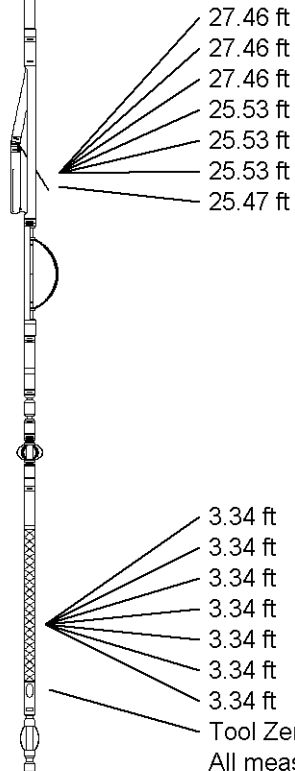
SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 438 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.A Compact Knuckle Joint
 SKJ-E.A 477 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
 MIS-E.B 577 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
 MAI-B.J 392 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

Total Length: 93.49 ft Weight: 712.1 lb



AVOL - Annular Volume
 HVOL - Hole Volume
 CLDC - Density Caliper
 DPRL - Limestone Density Por.
 DEN - Compensated Density
 DCOR - Density Correction
 PDPE - PE

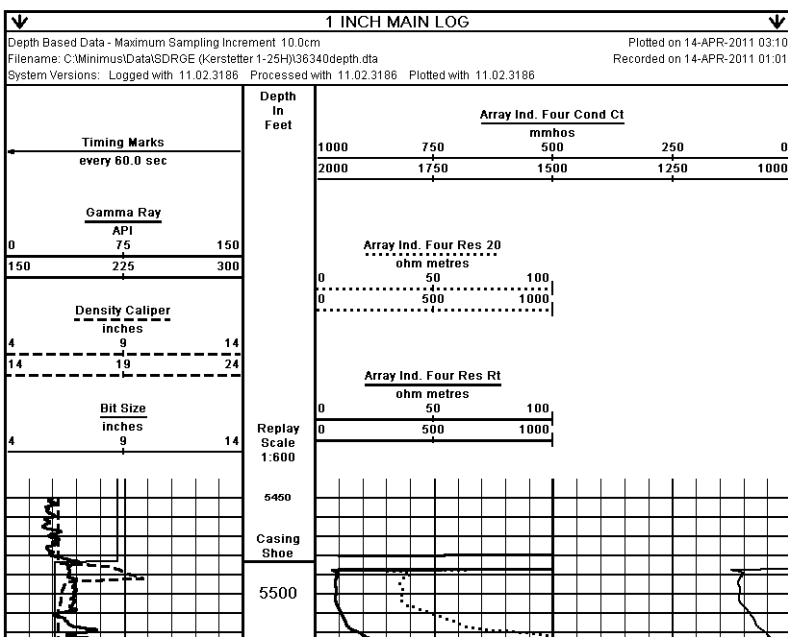
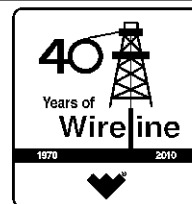
CTAF - Array Ind. Four Cond Ct
 R40F - Array Ind. Four Res 40
 R30F - Array Ind. Four Res 30
 R20F - Array Ind. Four Res 20
 R60F - Array Ind. Four Res 60
 R85F - Array Ind. Four Res 85
 RTAF - Array Ind. Four Res Rt
 (1.84ft from bottom)
 All measurements relative to tool zero.

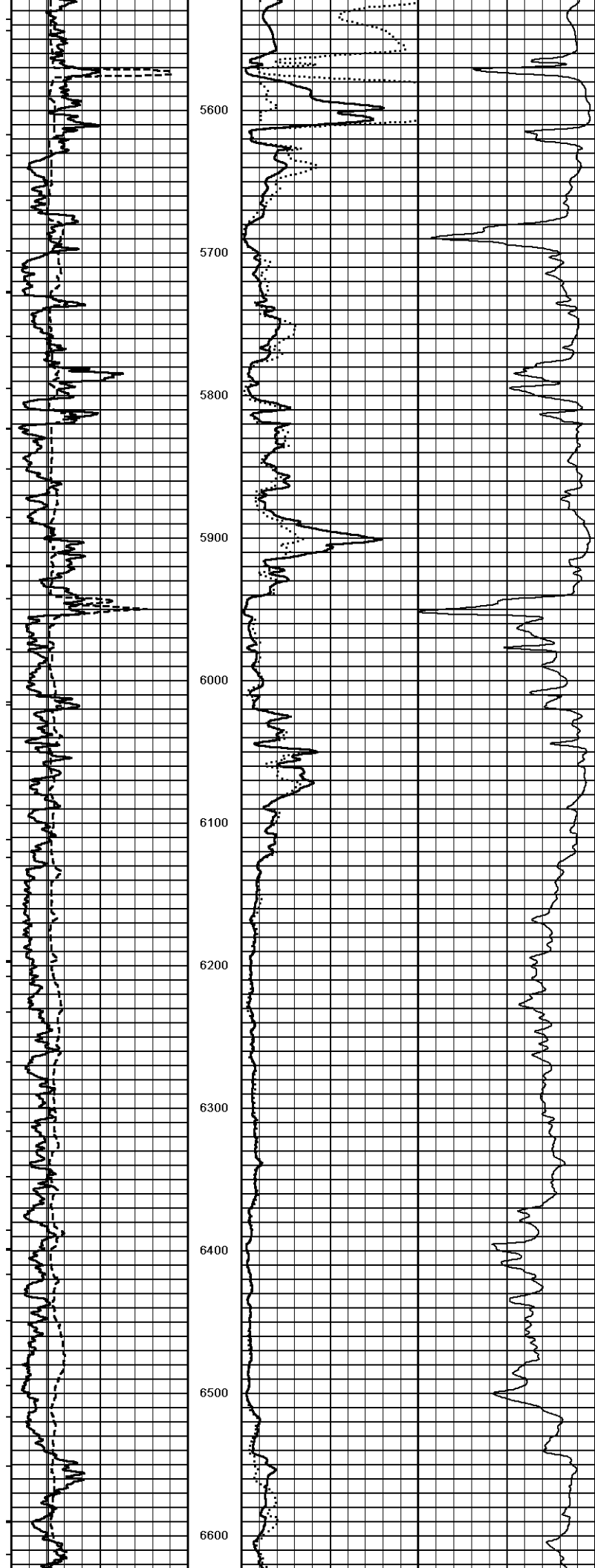
COMPANY SANDRIDGE ENERGY
 WELL KERSTETTER 1-25H
 FIELD SIX MOONS
 PROVINCE/COUNTY COMANCHE
 COUNTRY/STATE USA / KANSAS

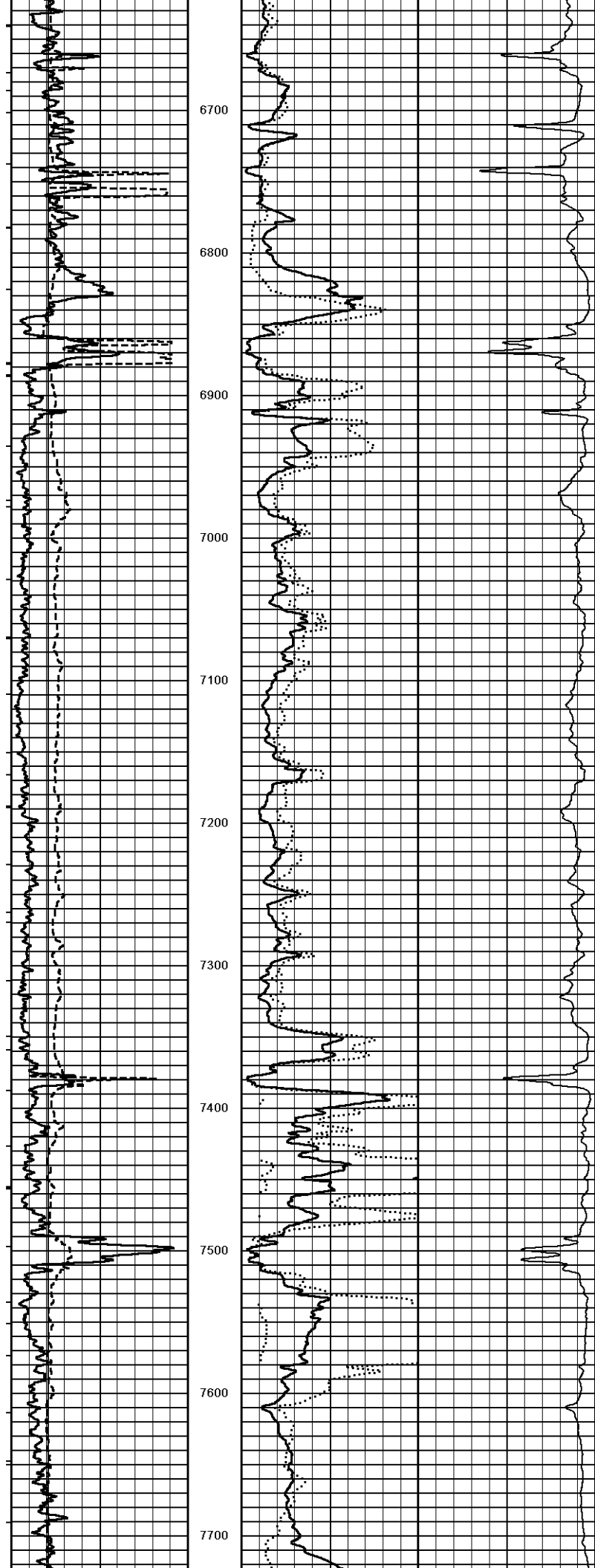
Elevation Kelly Bushing	2020.00	feet	First Reading	12109.00	feet
Elevation Drill Floor	2018.00	feet	Depth Driller	12129.00	feet
Elevation Ground Level	2000.00	feet	Depth Logger	12112.00	feet

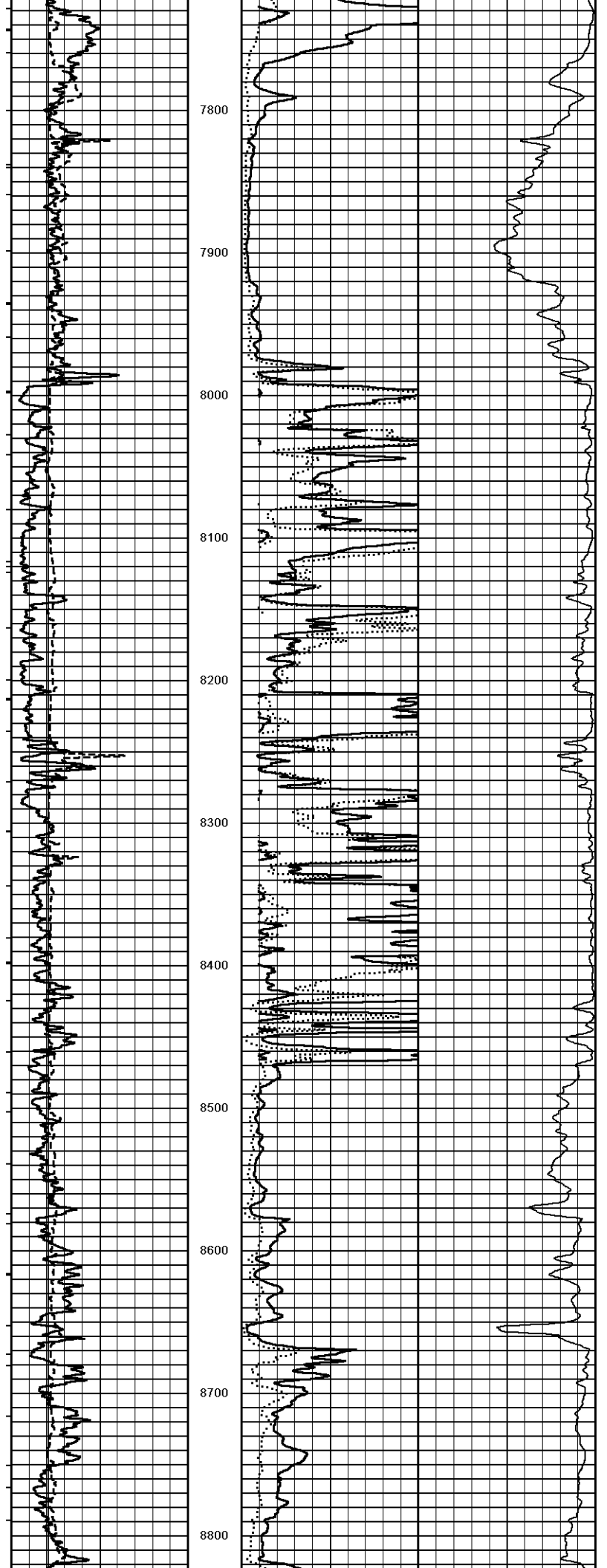


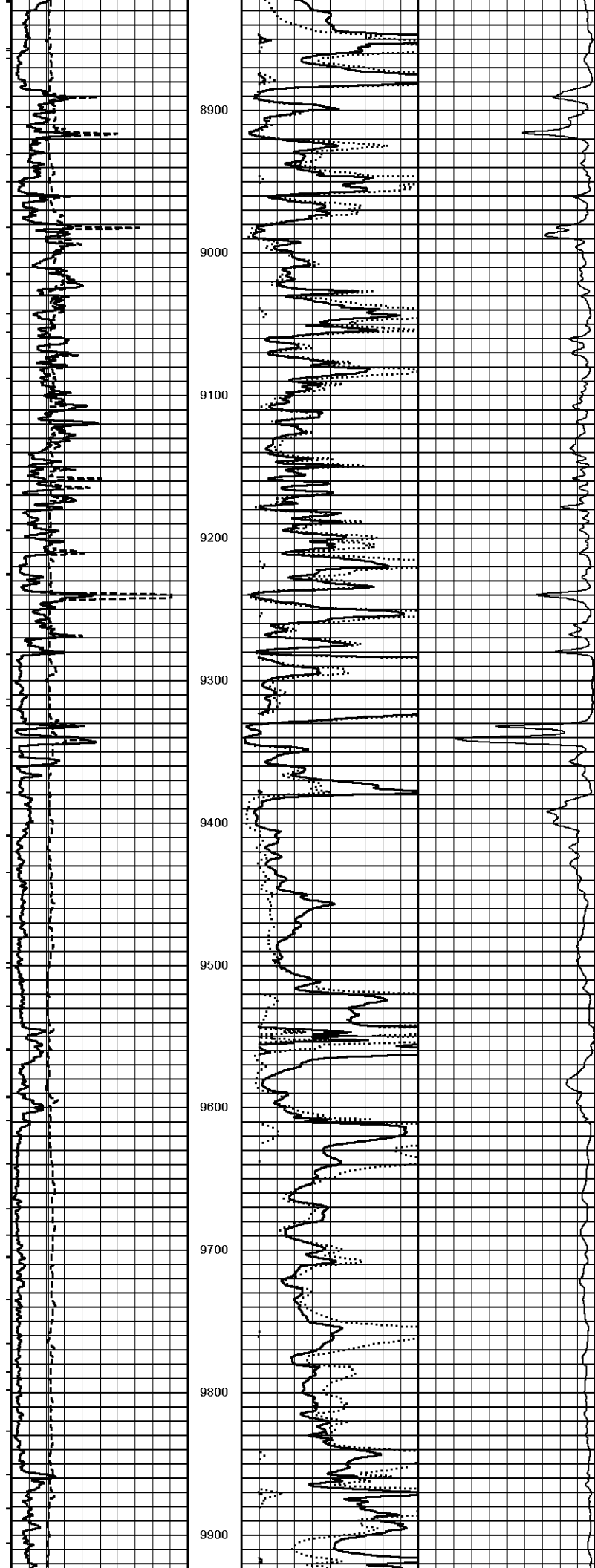
COMPACT WELL SHUTTLE
 ARRAY INDUCTION
 LOG

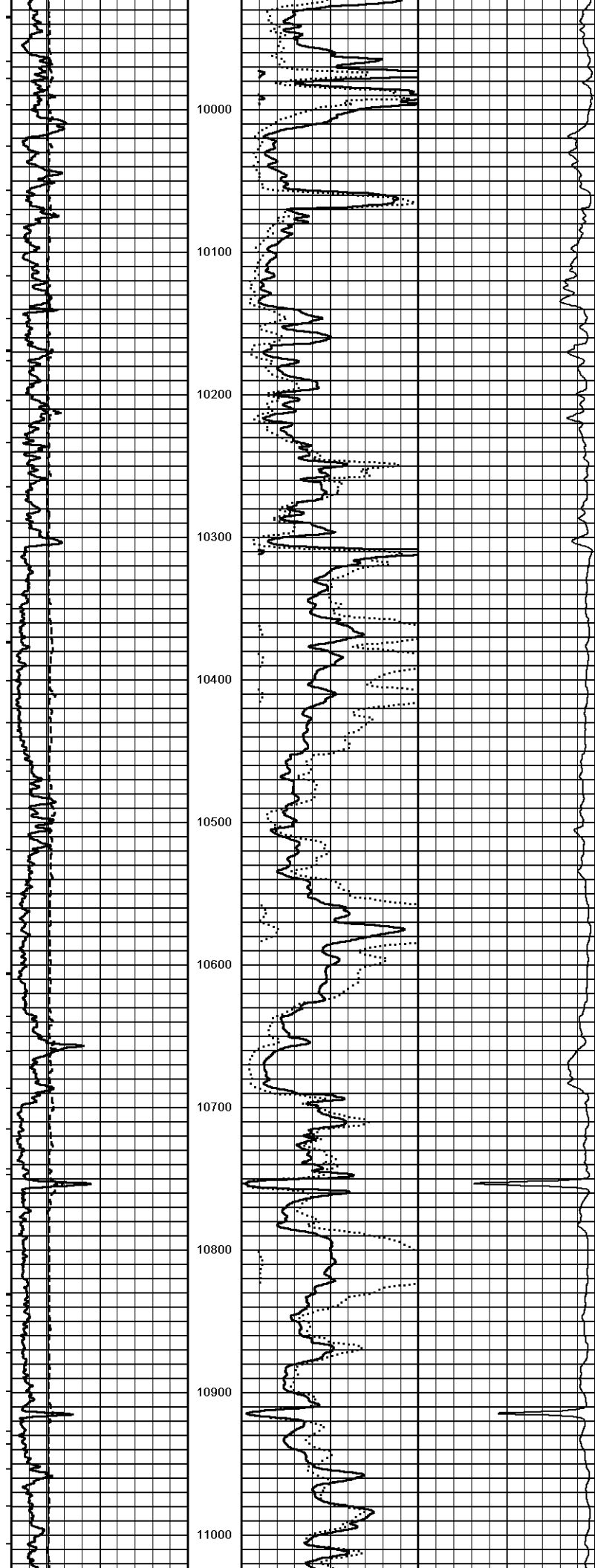


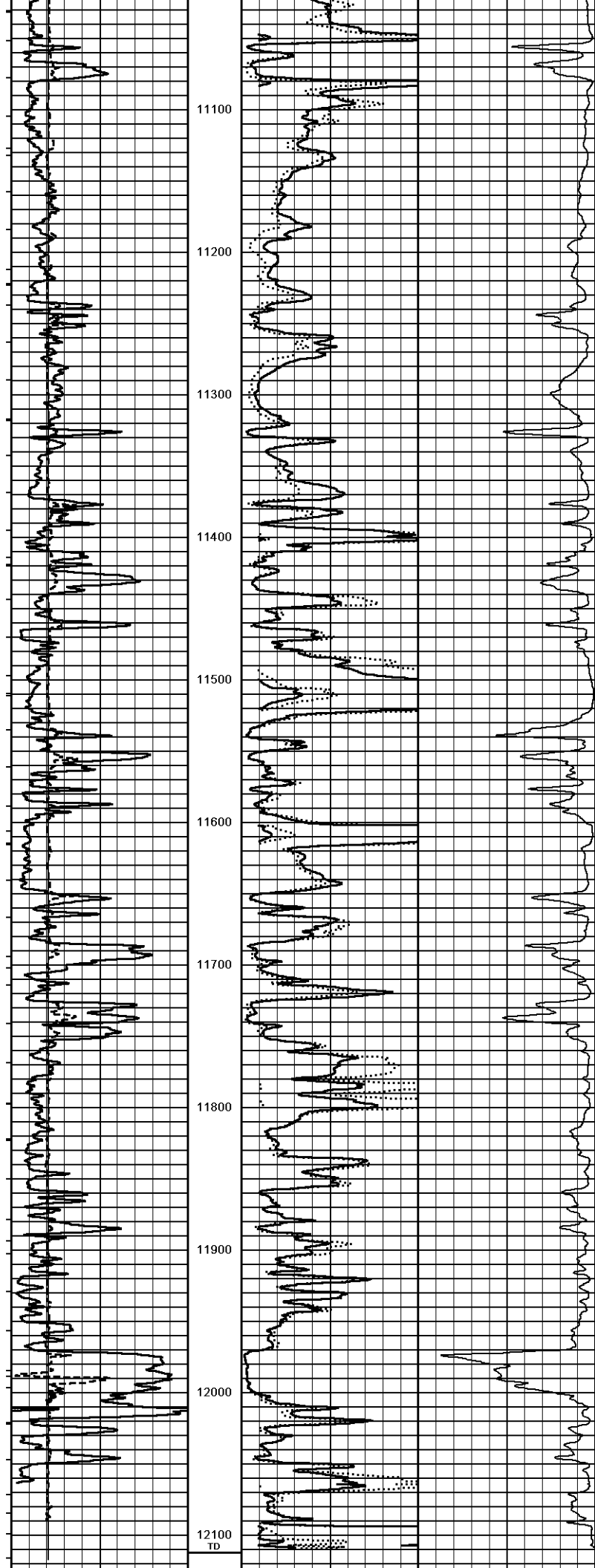


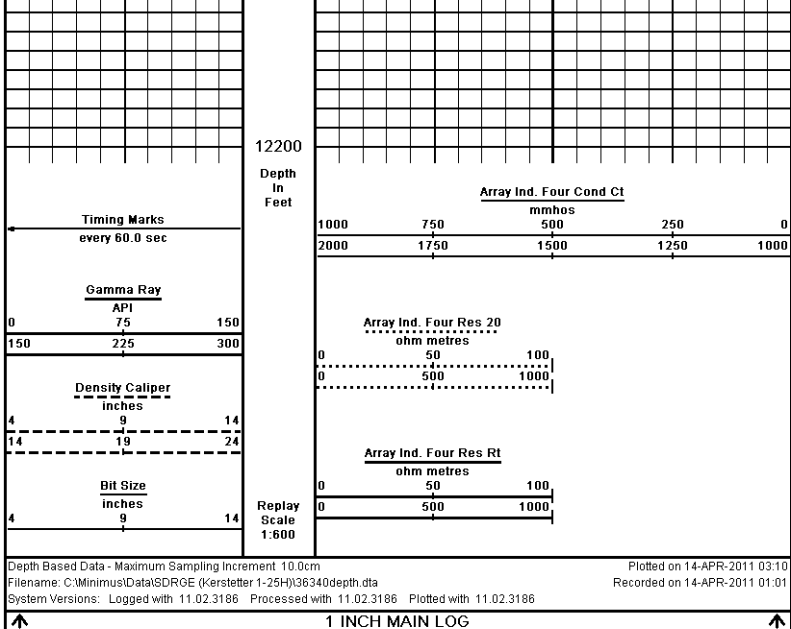














COMPANY	SANDRIDGE ENERGY			
WELL	KERSTETTER 1-25H			
FIELD	SIX MOONS			
PROVINCE/COUNTY	COMANCHE			
COUNTRY/STATE	USA / KANSAS			
Elevation Kelly Bushing	2020.00	feet	First Reading	12109.00 feet
Elevation Drill Floor	2018.00	feet	Depth Driller	12129.00 feet
Elevation Ground Level	2000.00	feet	Depth Logger	12112.00 feet

 COMPACT WELL SHUTTLE
ARRAY INDUCTION
LOG

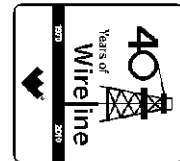




Weatherford[®]

**COMPACT WELL SHUTTLE
COMPACT PHOTO DENSITY
COMPENSATED NEUTRON LOG**

**COMPANY SANDRIDGE ENERGY
WELL KERSTETTER 1-25H
FIELD SIX MOONS
PROVINCE/COUNTY COMANCHE
COUNTRY/STATE USA / KANSAS
LOCATION S2 SW4 SW4
330' FSL & 660' FWL**



SEC 25 TWP 31S RGE 20W Other Services MAI
API Number 15-033-21581 Permit Number
Permanent Datum GL, Elevation 2000 feet
Log Measured From KB @ 20 FEET above Permanent Datum
Drilling Measured From KB

Elevations: feet
KB 2020.00
DF 2018.00
GL 2000.00

Date	14-APR-2011
Run Number	ONE
Depth Driller	12129.00 feet
Depth Logger	12112.00 feet
First Reading	12087.50 feet
Last Reading	5450.00 feet
Casing Driller	5483.00 feet
Casing Logger	5483.00 feet
Bit Size	6.125 inches
Hole Fluid Type	WATER
Density / Viscosity	8.40 lb/USg 27.00 CP
PH / Fluid Loss	10.50
Sample Source	FLOWLINE
Rm @ Measured Temp	2.0 @ 60.0 ohm-m
Rmf @ Measured Temp	1.60 @ 60.0 ohm-m
Rmc @ Measured Temp	2.40 @ 60.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.93 @ 137.0 ohm-m
Time Since Circulation	12 HOURS
Max Recorded Temp	137.00 deg F
Equipment Name	COMPACT
Equipment / Base	18077 OKC
Recorded By	GUTHMUELLER
Witnessed By	K GENTRY

BOREHOLE RECORD

Last Edited: 14-APR-2011 02:05

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	804.00
8.750	804.00	5483.00
6.125	5483.00	12129.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURF	9.625	0.00	804.00	36.00
INTER	7.000	0.00	5483.00	26.00

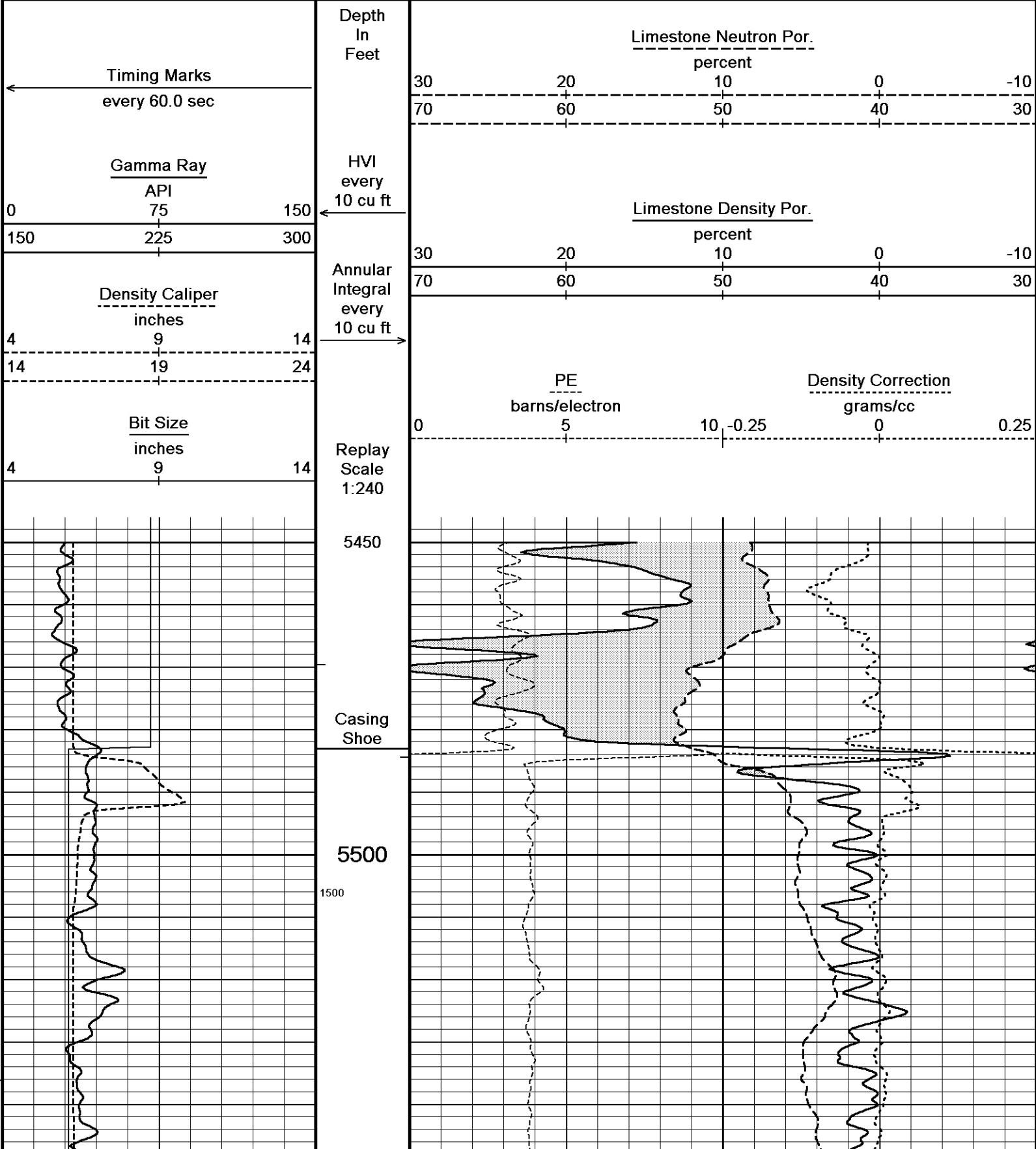
REMARKS

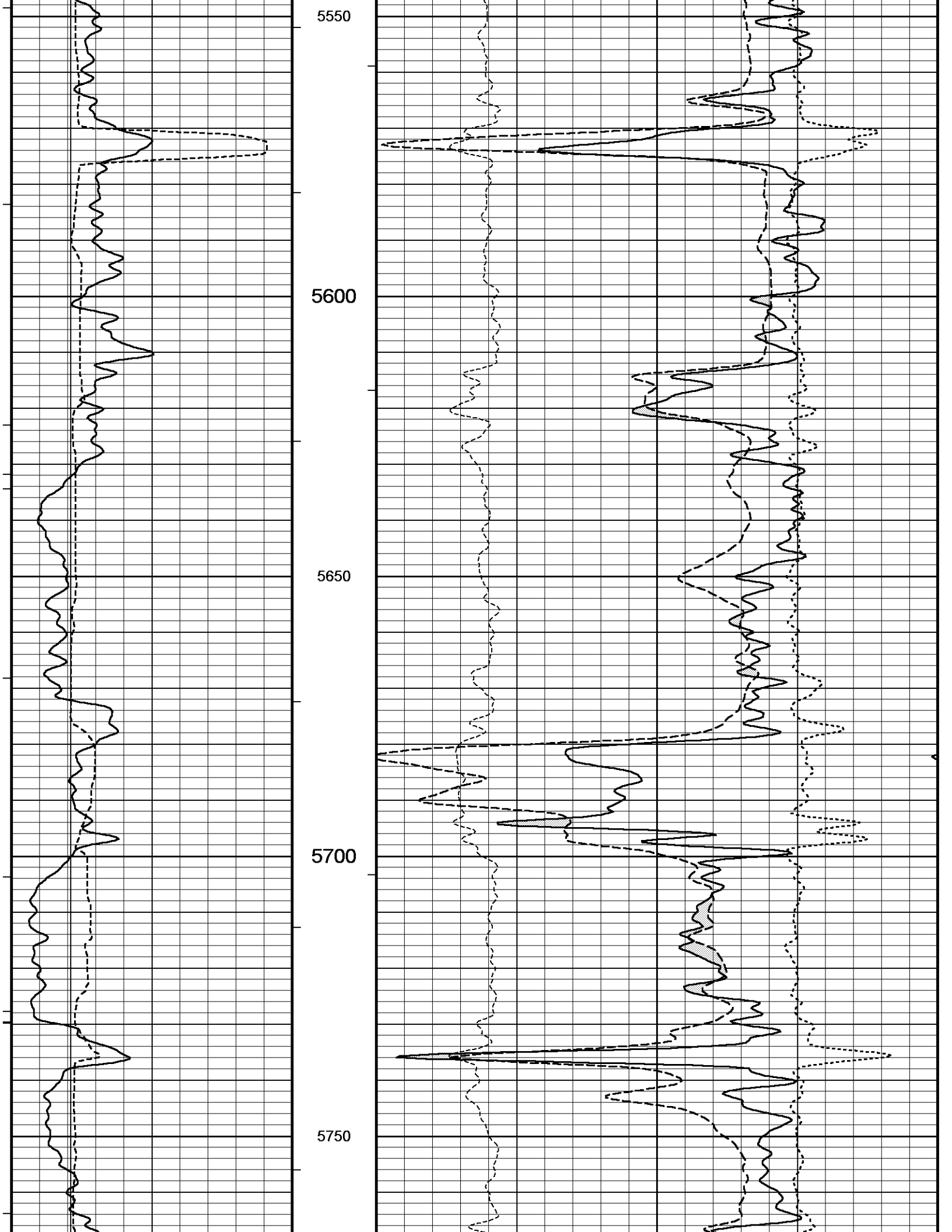
WLS SOFTWARE VERSION 11.02.3186 USED
 TOOLS RUN ON DRILLPIPE USING COMPACT WELL SHUTTLE DEPLOYMENT TECHNIQUE
 DEPTH MEASURED USING ADVANTAGE RIG DEPTH SYSTEM CORRECTED TO PIPE STRAP.
 TOOLS DEPLOYED WITH MULE SHOE SITTING AT 12031 FT.
 AFTER DEPLOYMENT LOGGING TOOL WAS AT 12113 FT.
 4.5 INCH PRODUCTION CASING WAS USED TO CALCULATE ANNULAR HOLE VOLUMES
 OPERATORS: D TURNER, M FISHER
 S.O. # 3529776
 RIG: LARIAT 45

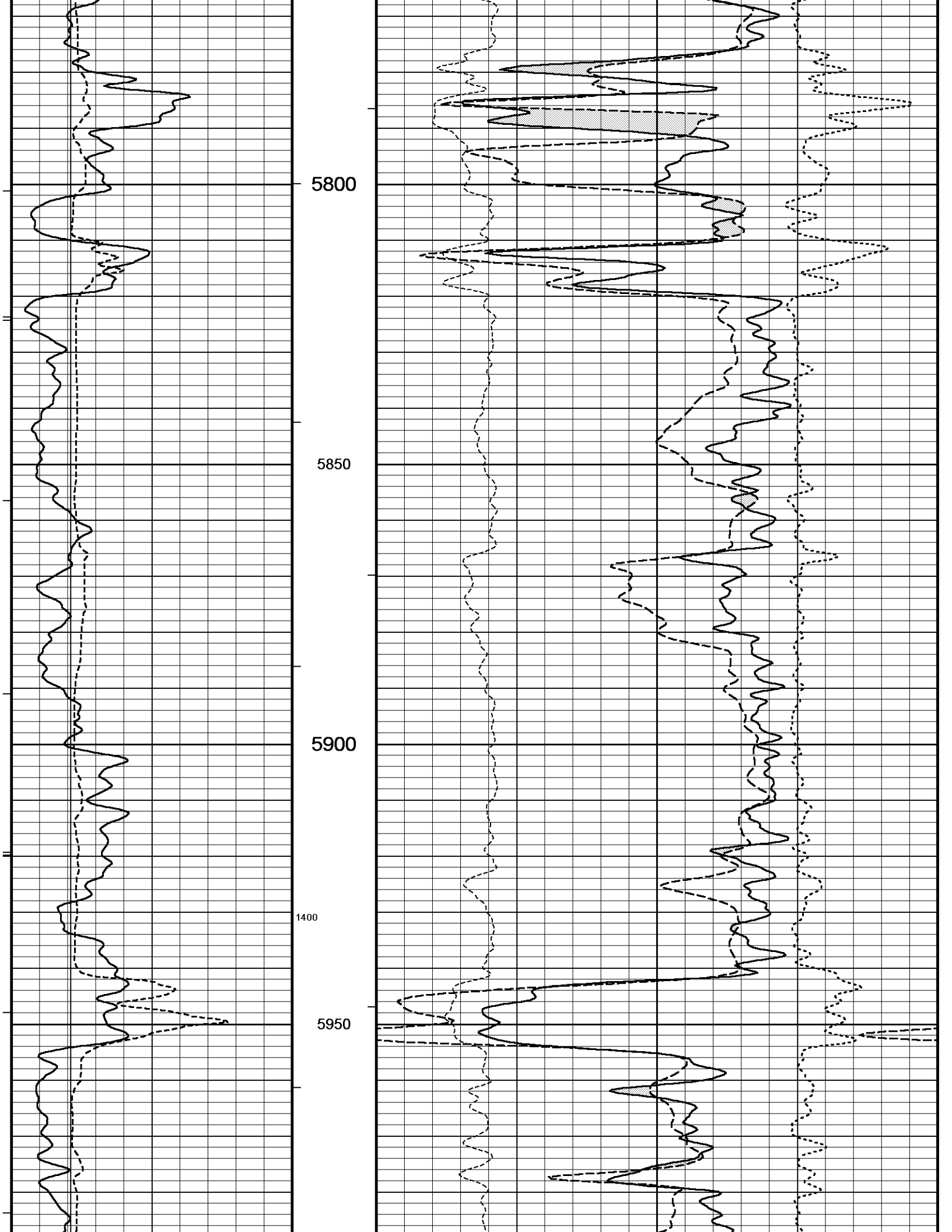
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

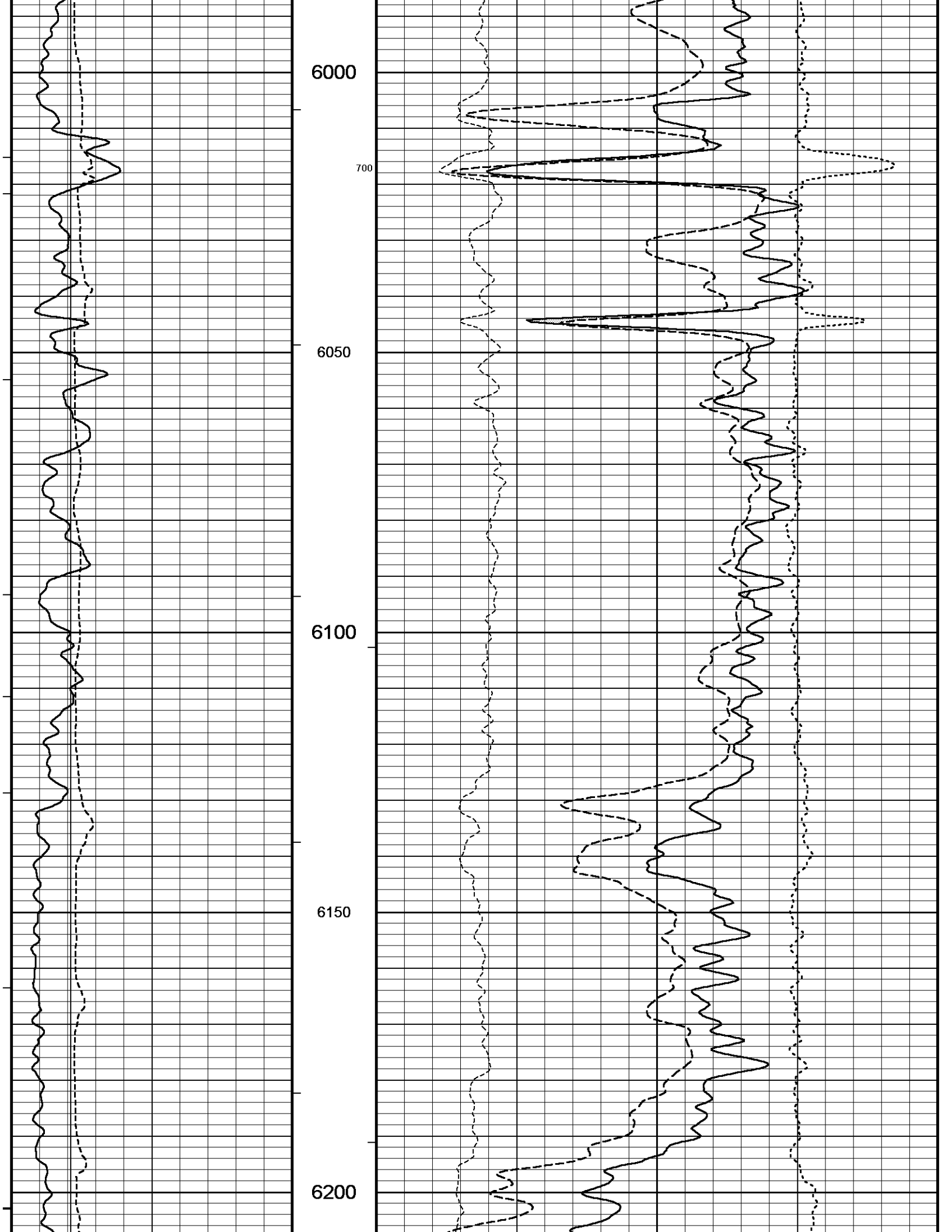
5 INCH POROSITY LOG

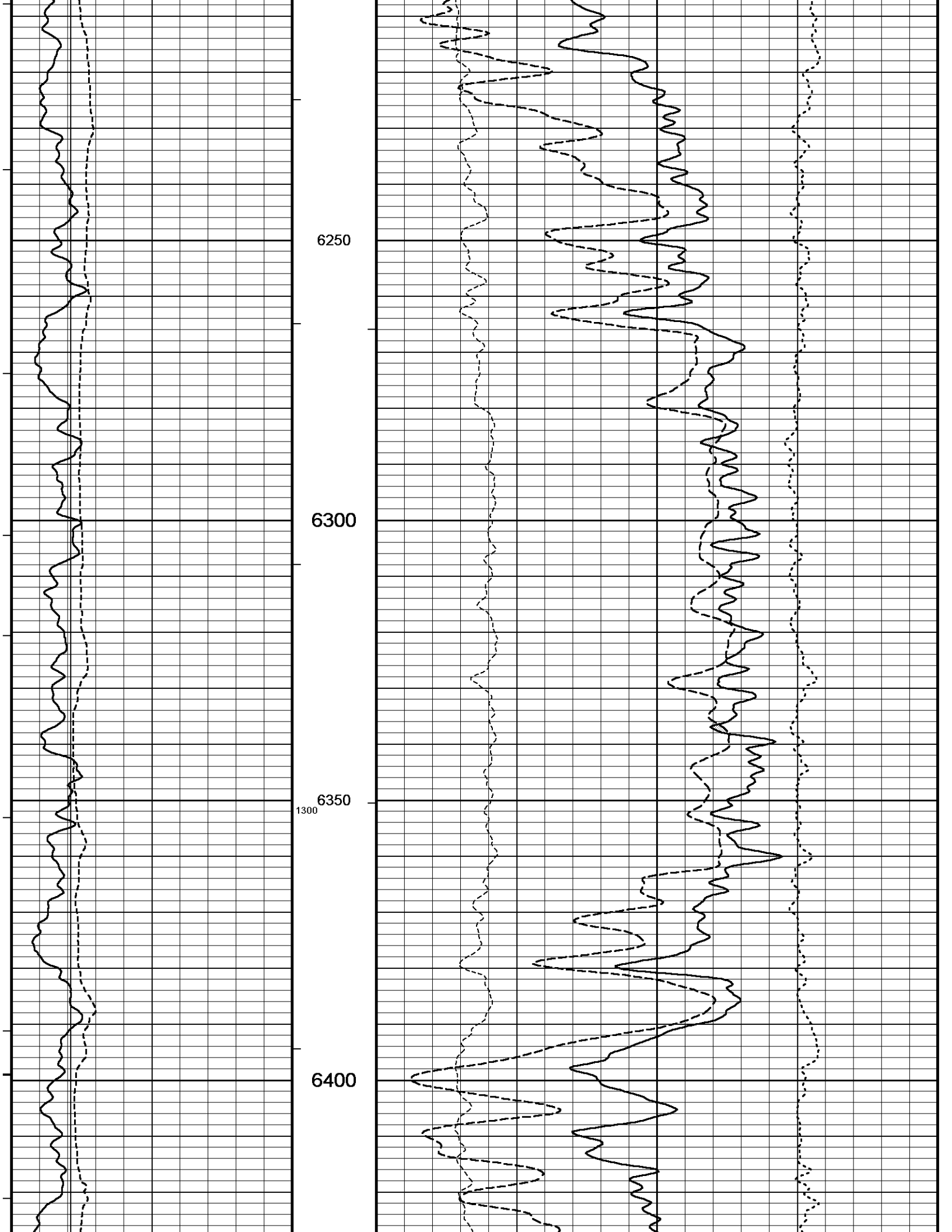
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-APR-2011 02:27
 Filename: C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\36340.dta Recorded on 14-APR-2011 01:01
 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186

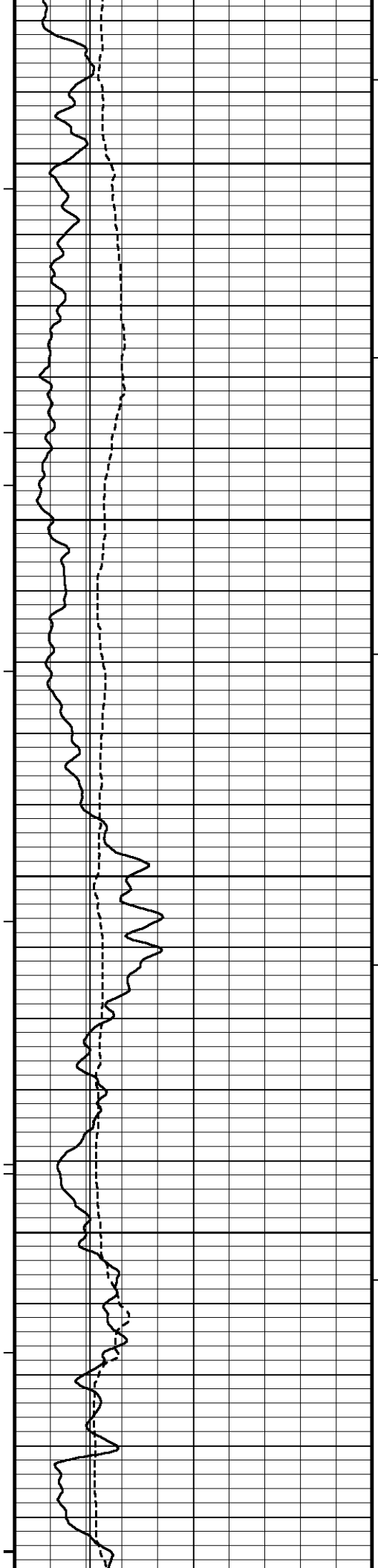










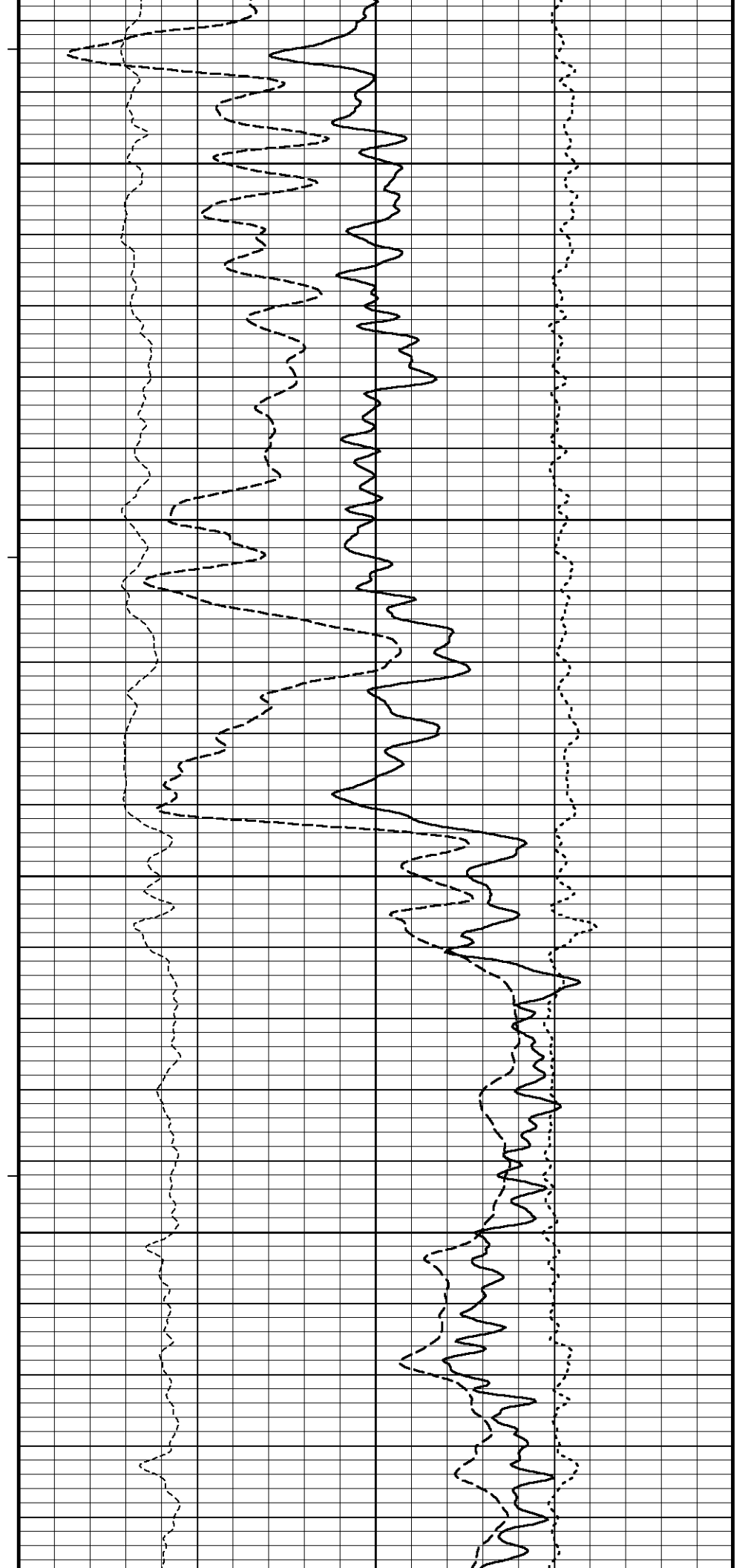


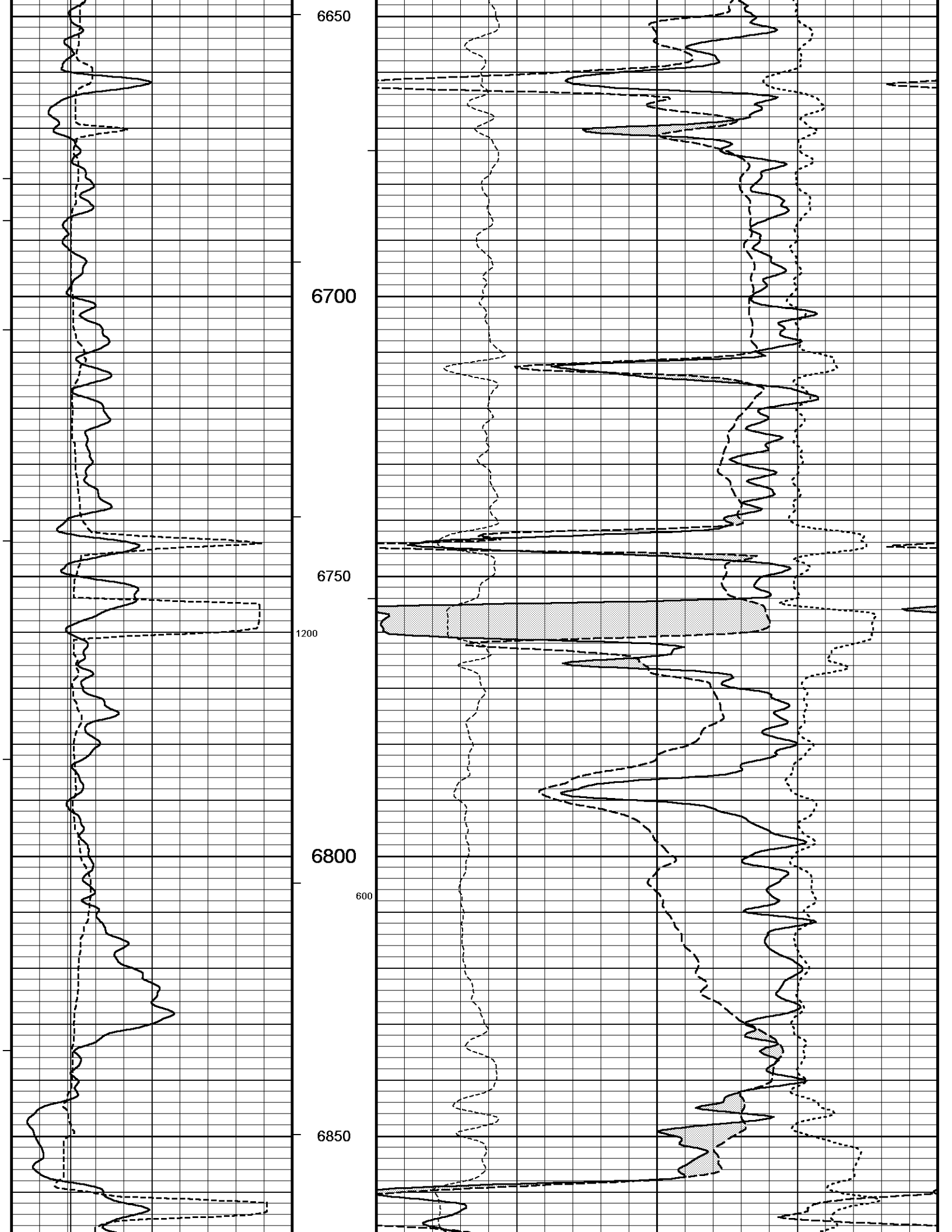
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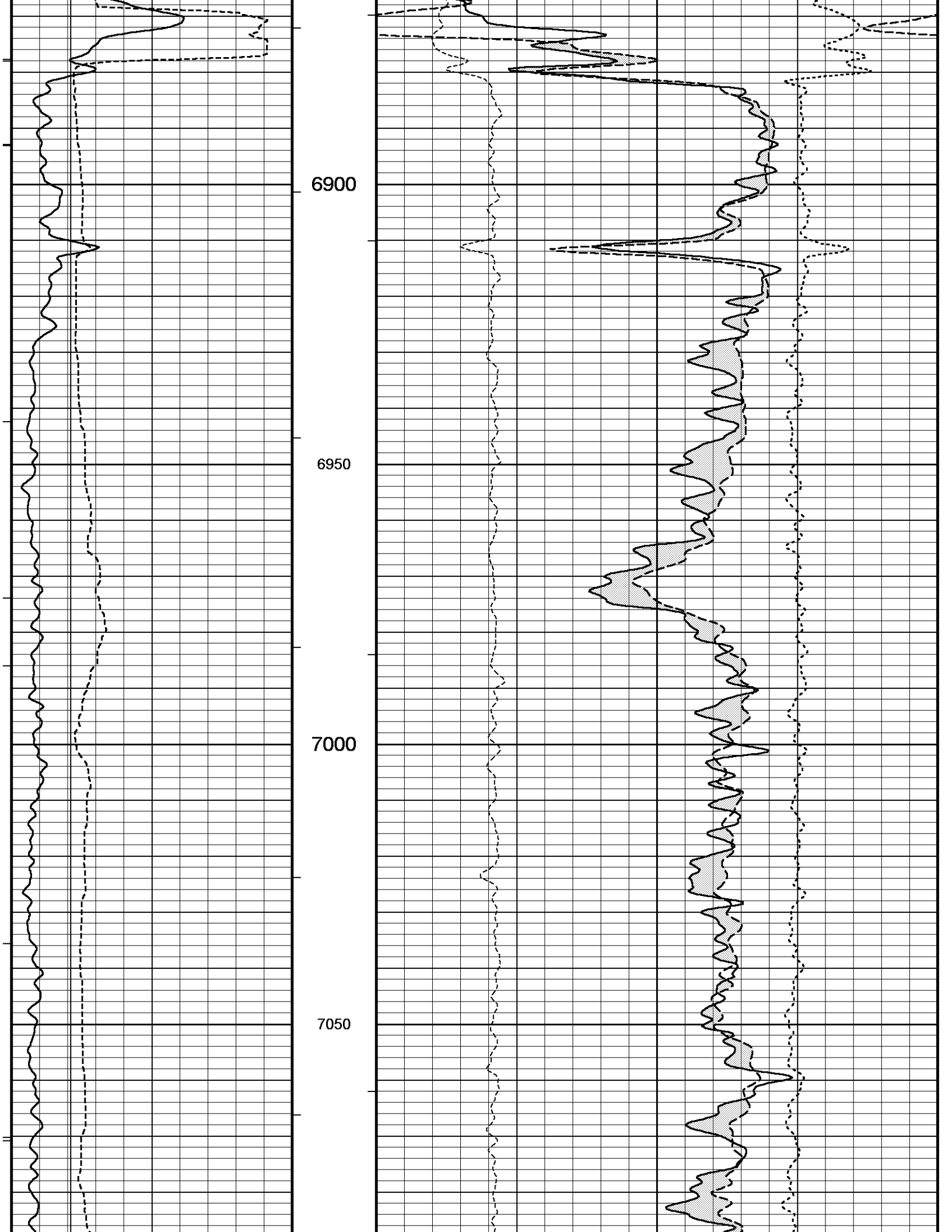
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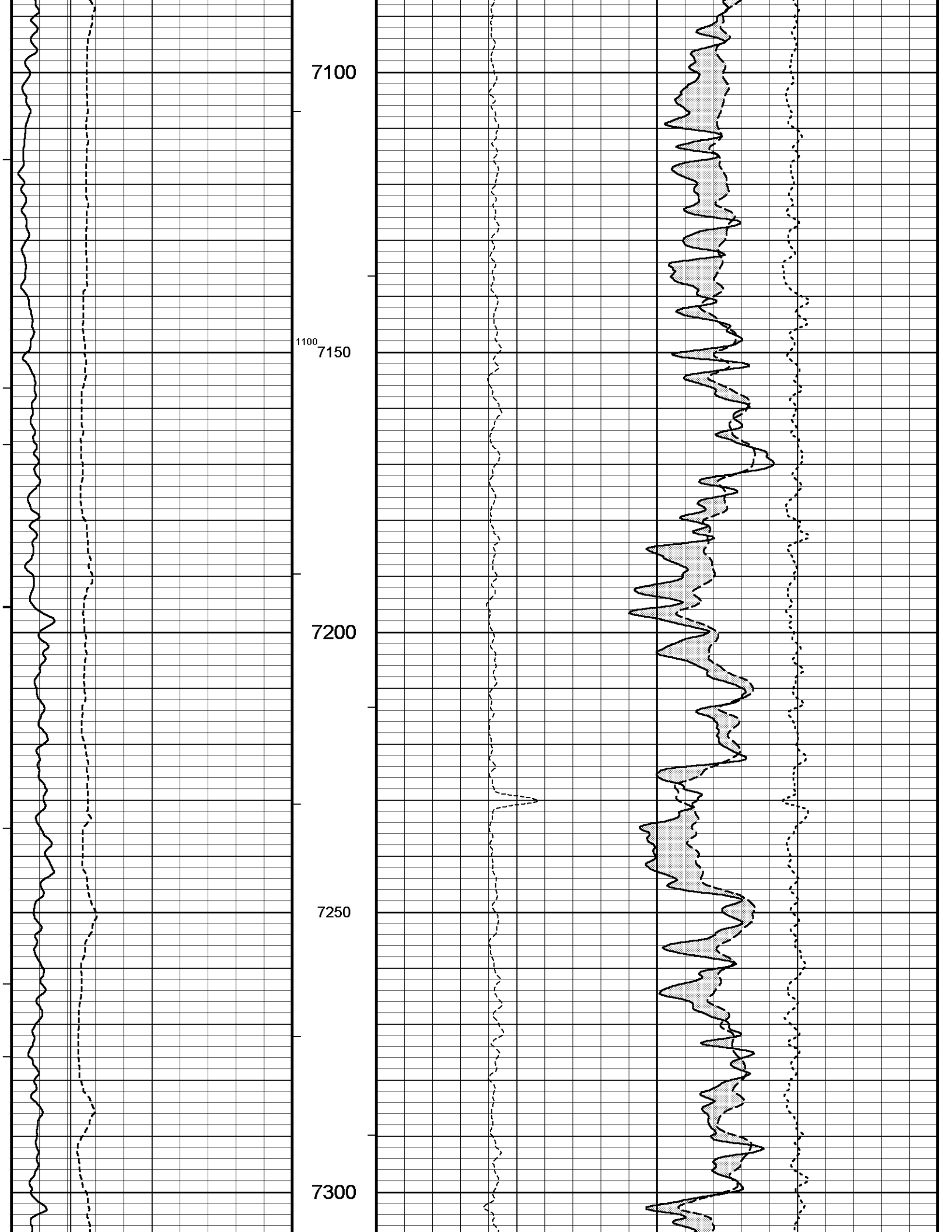
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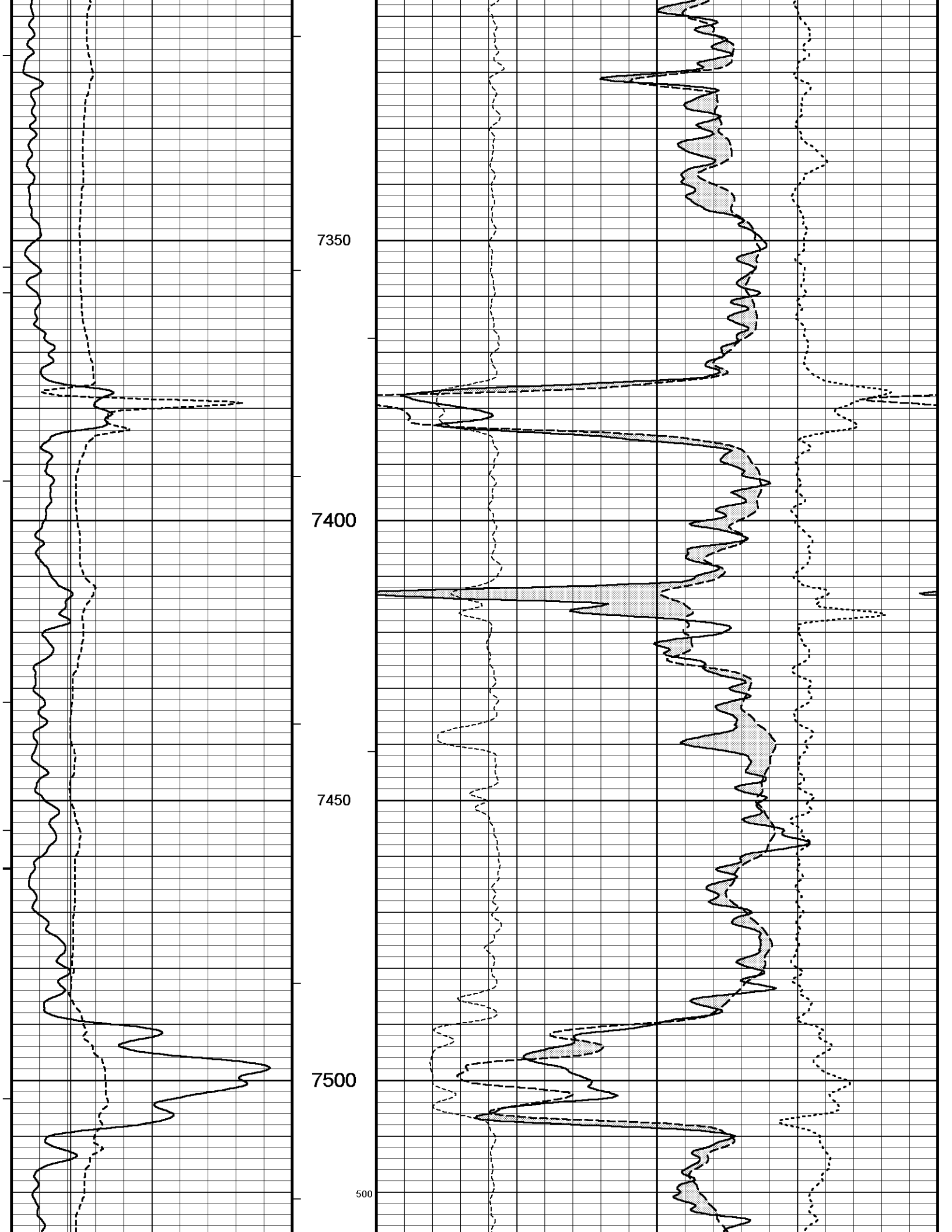
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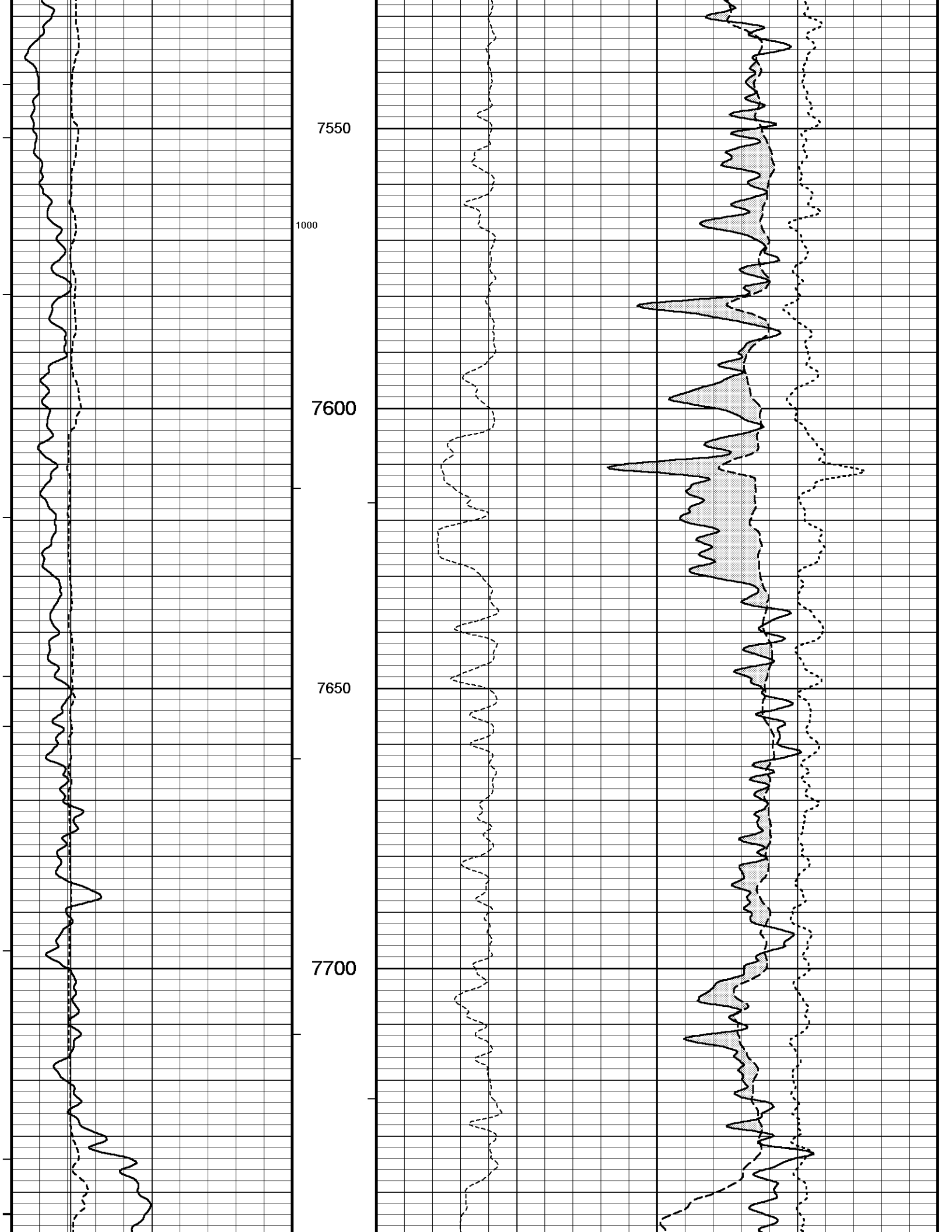


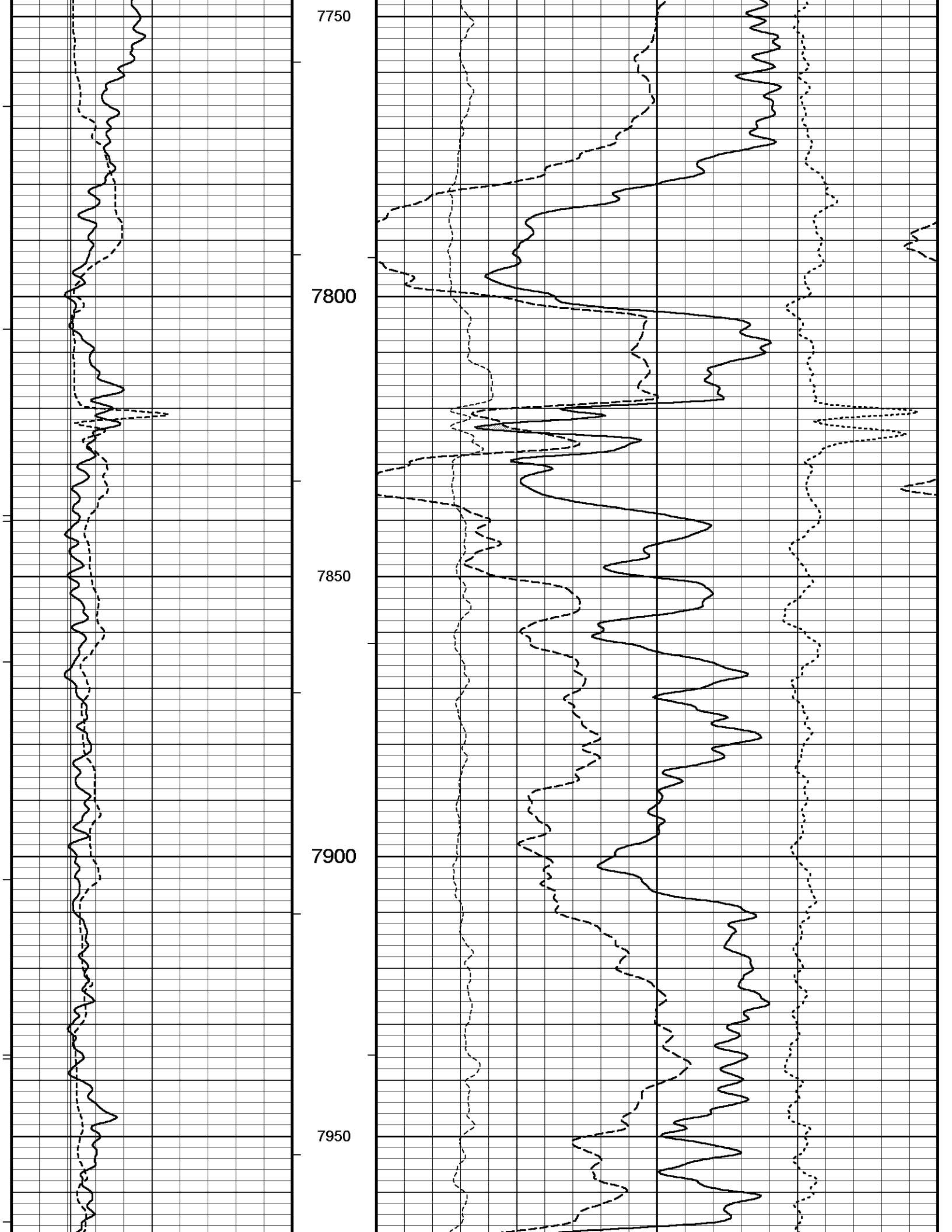


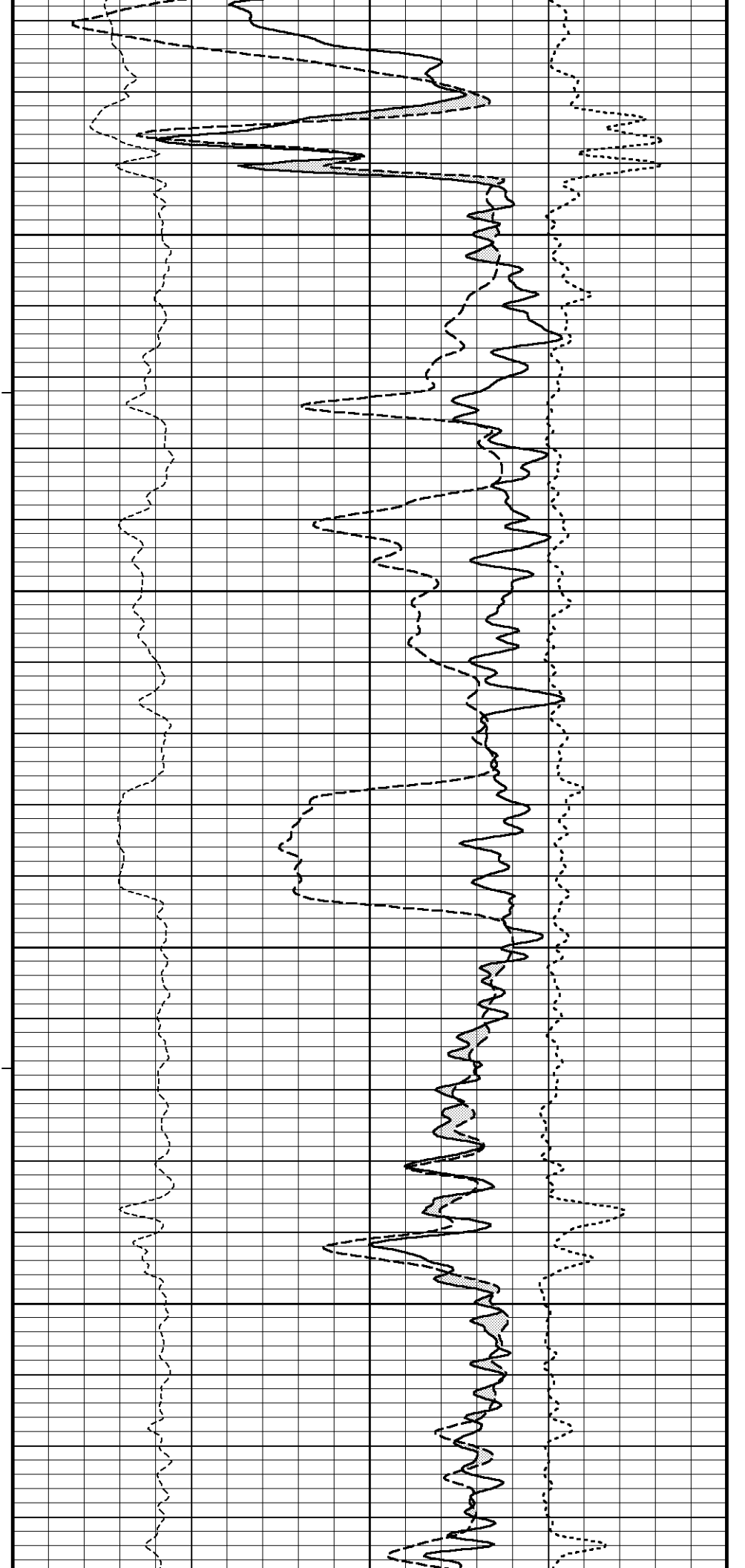
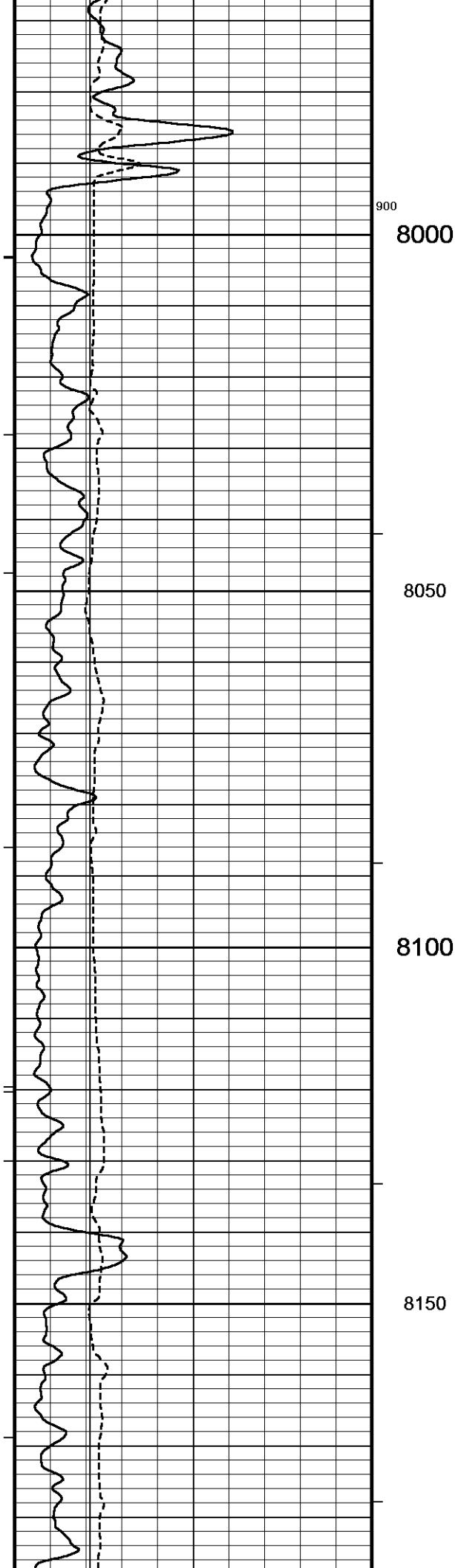


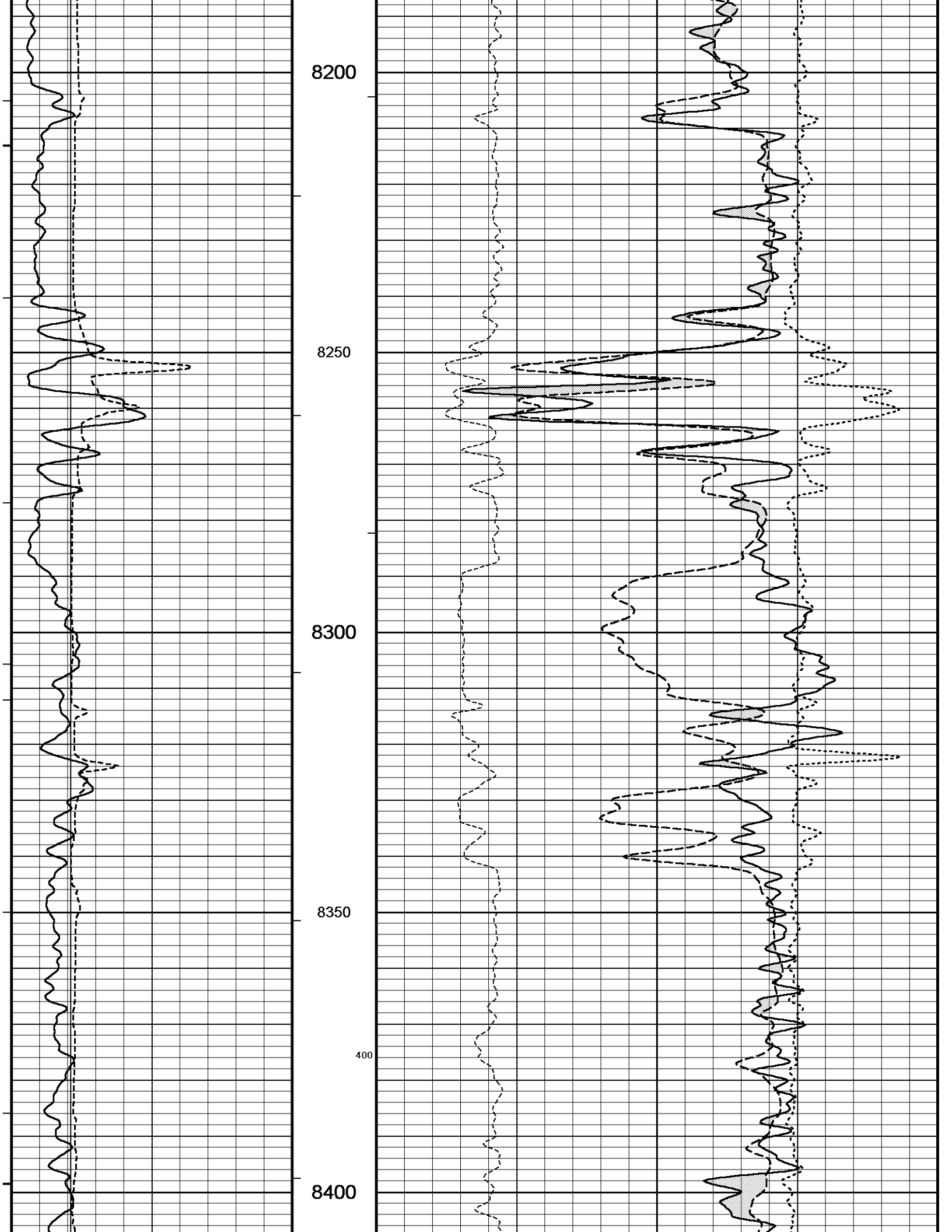


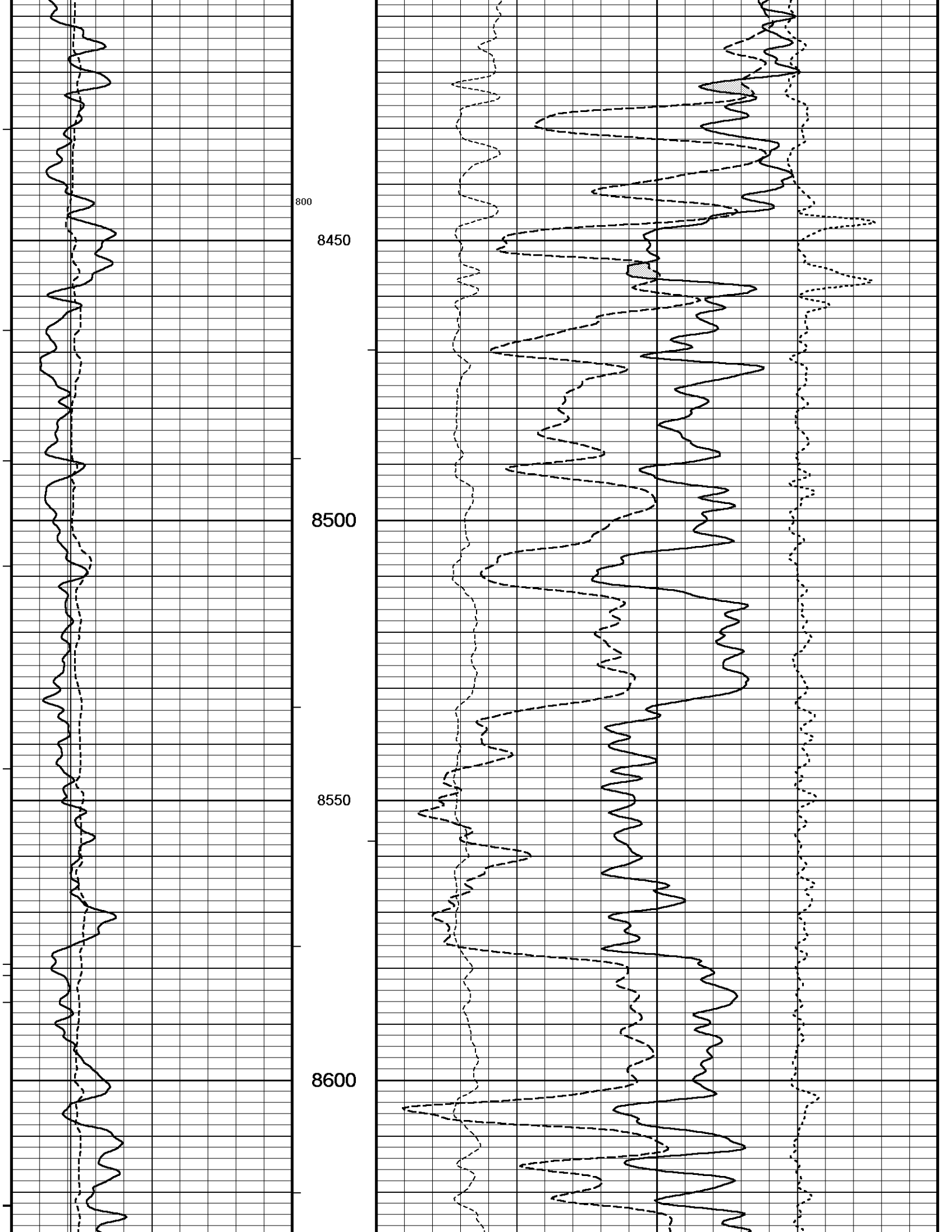


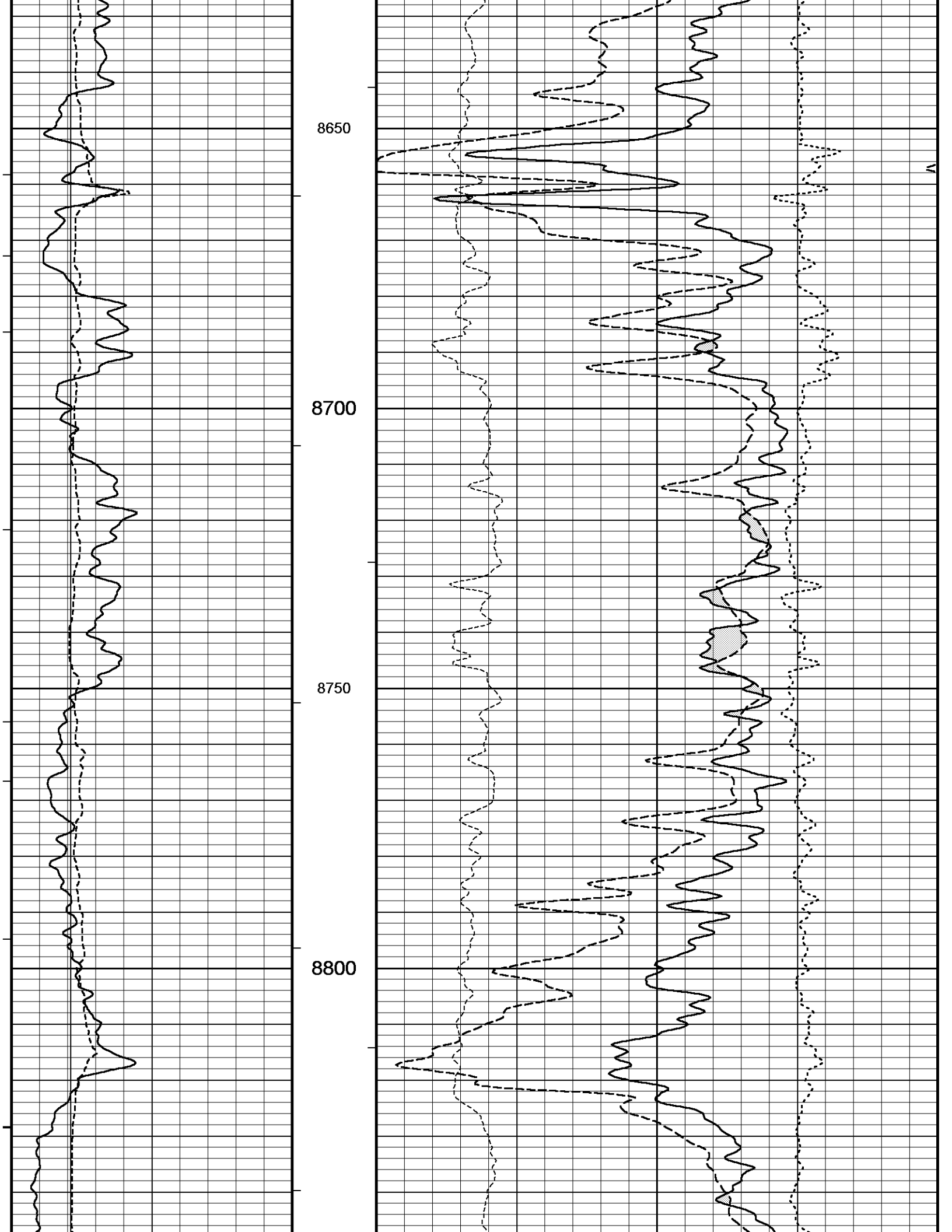


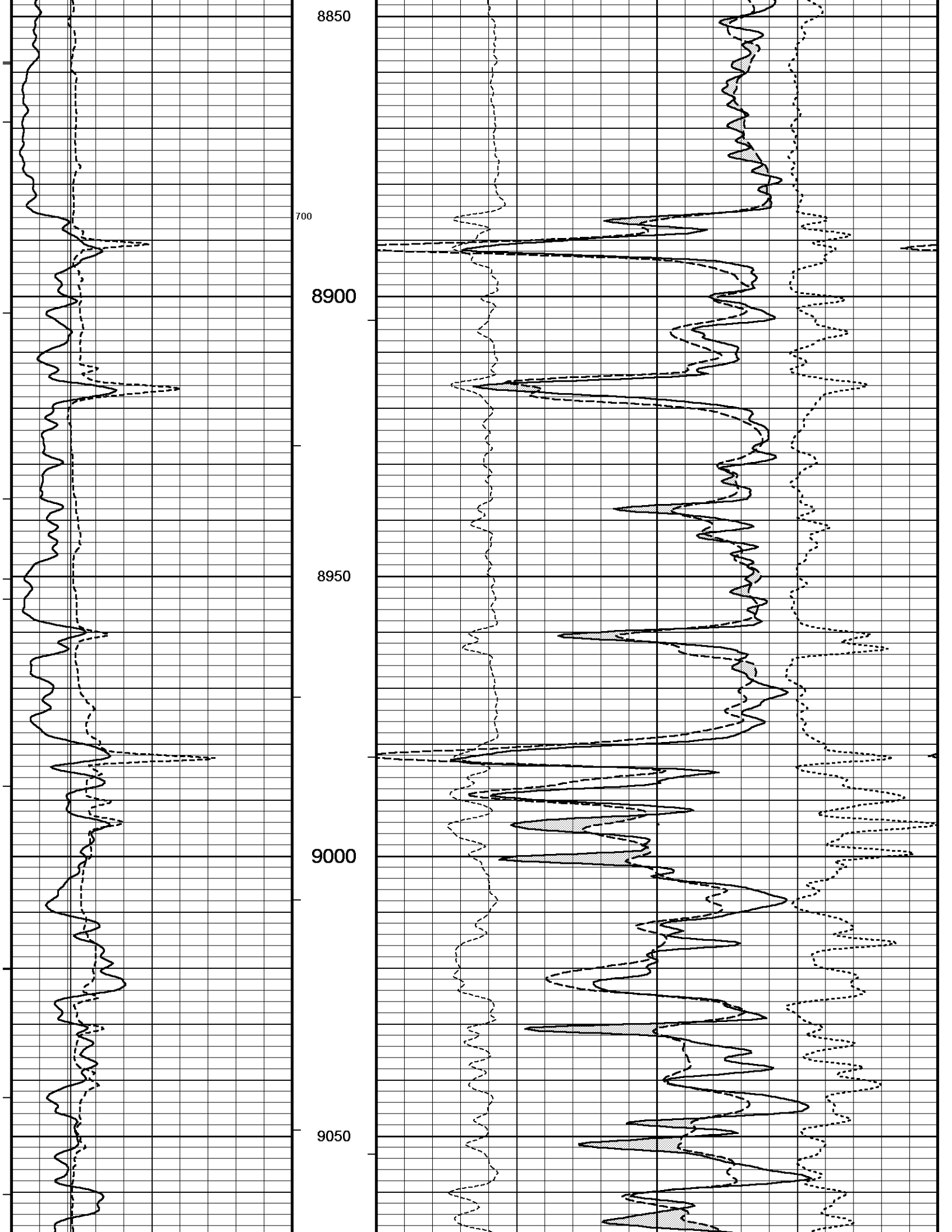


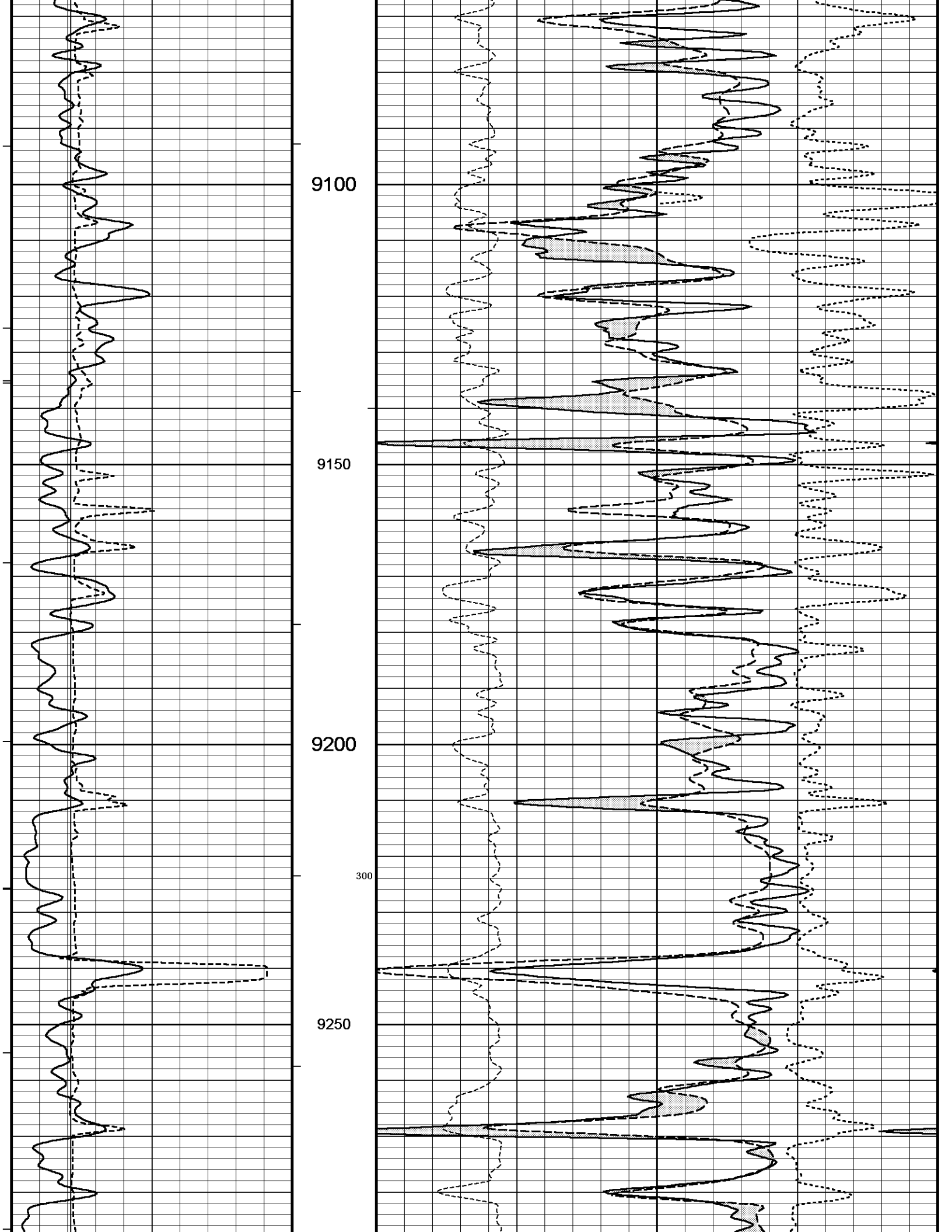


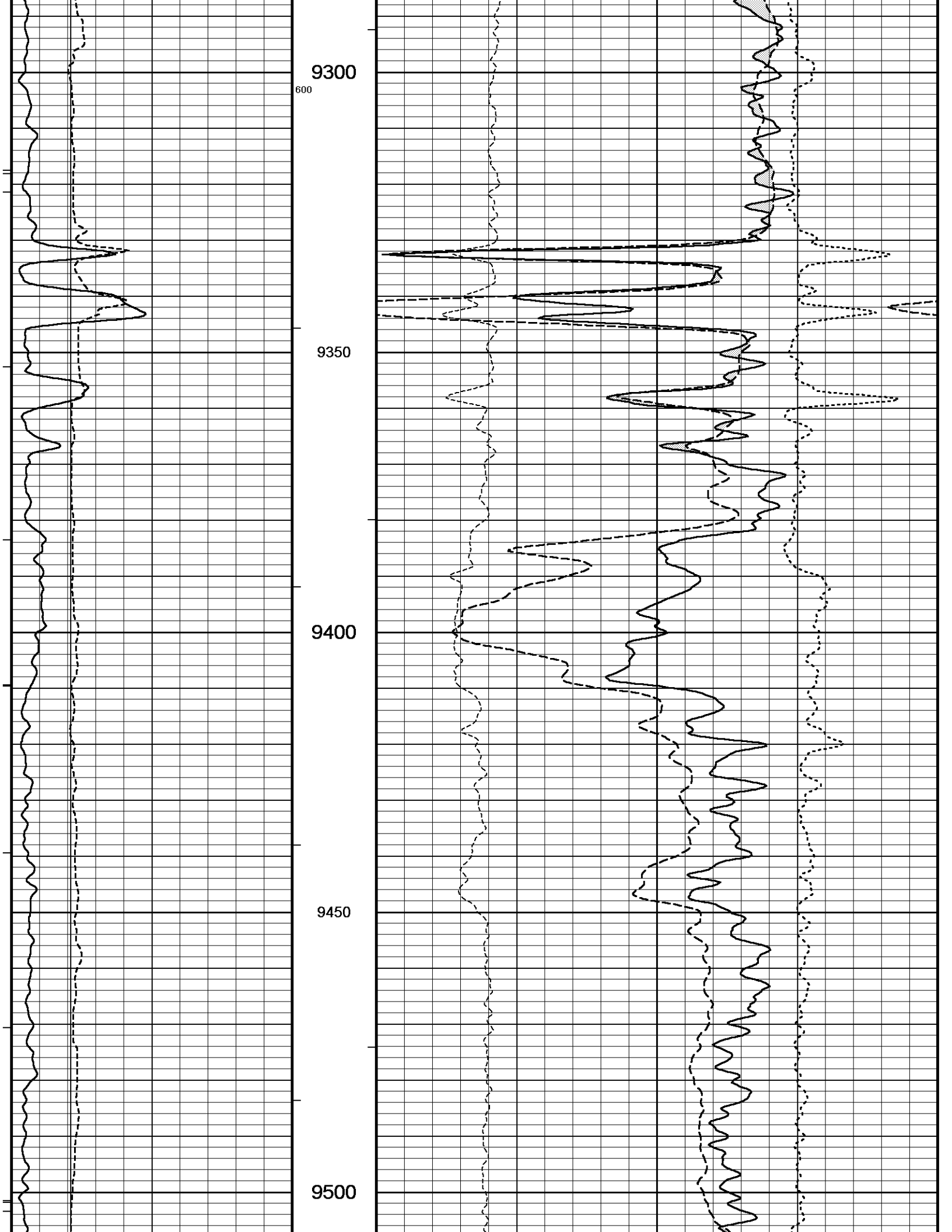


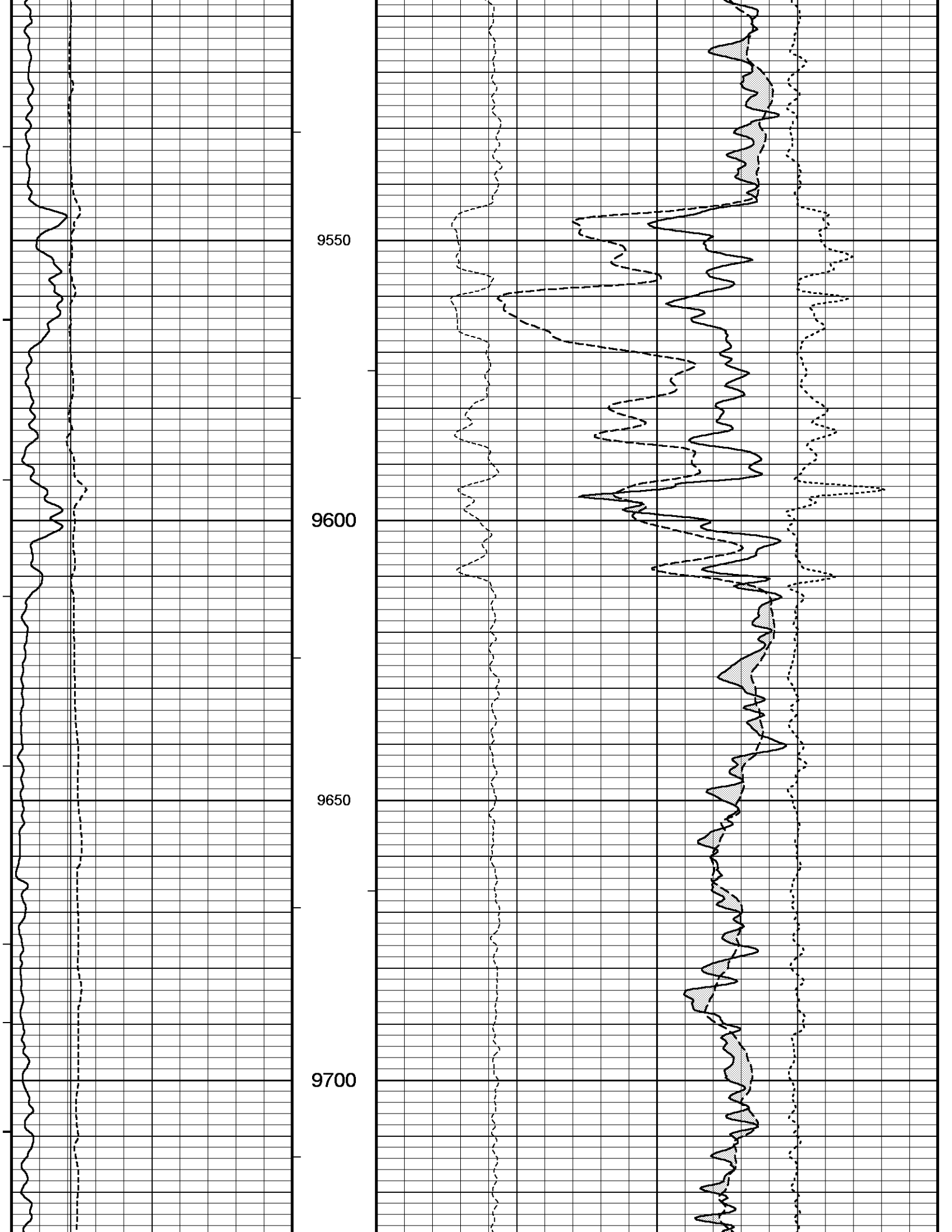


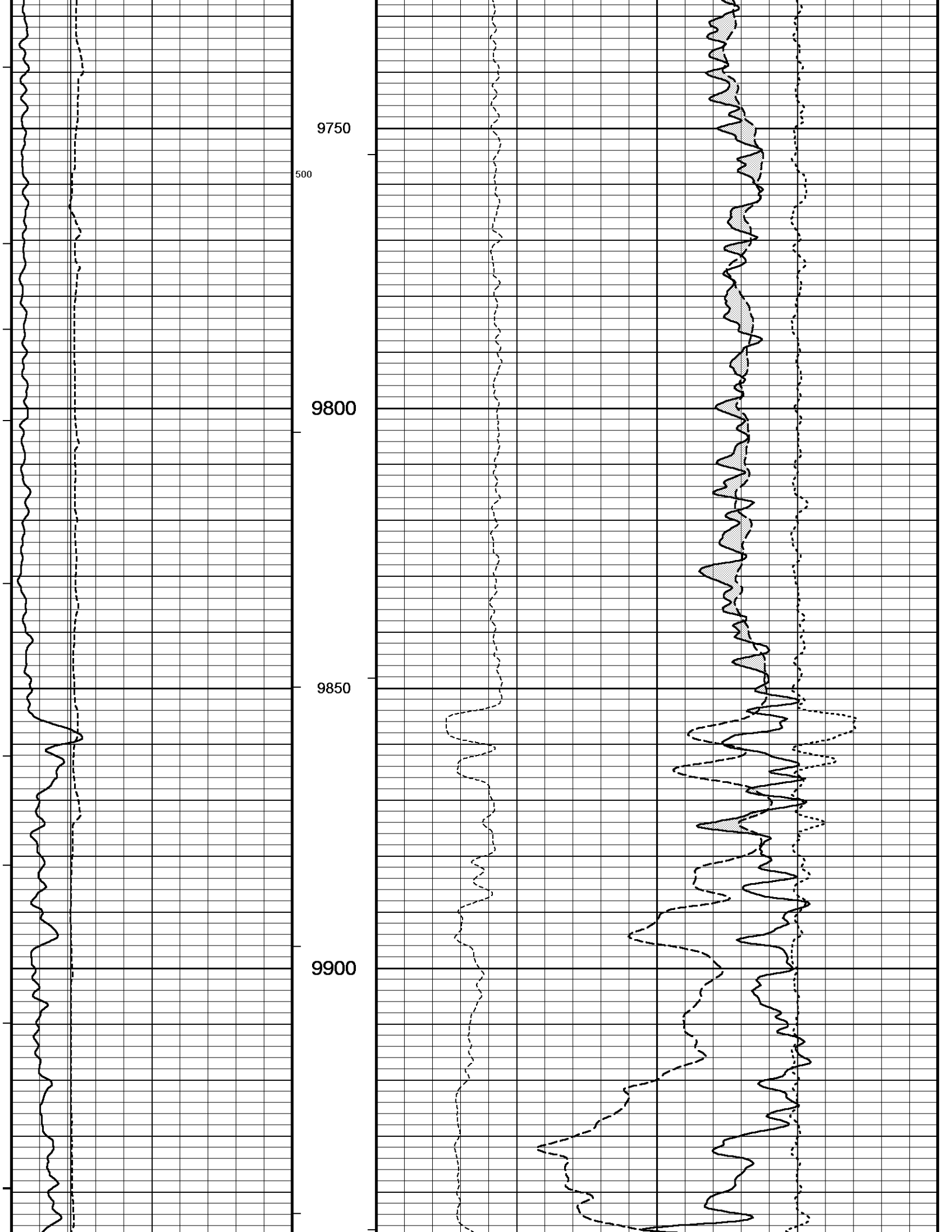


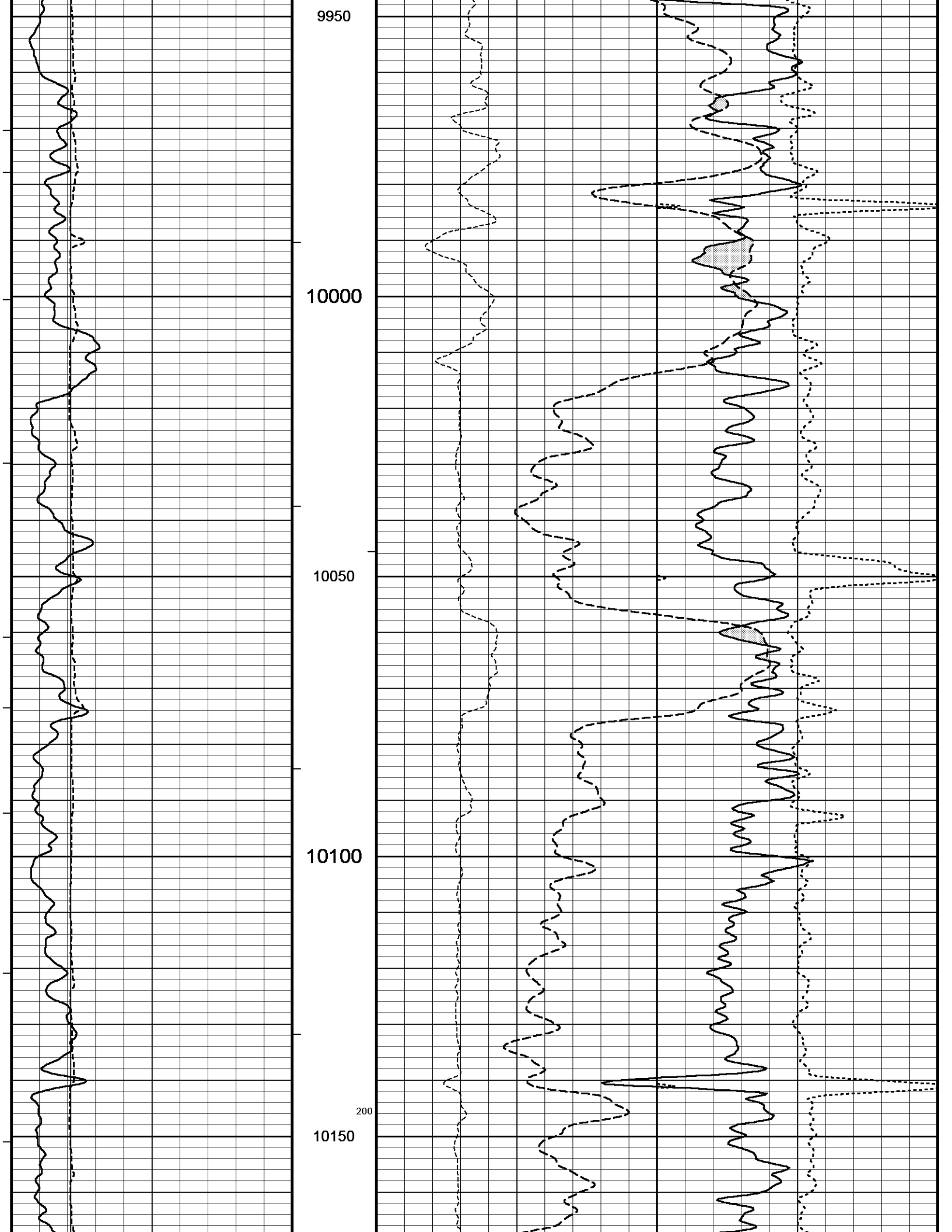


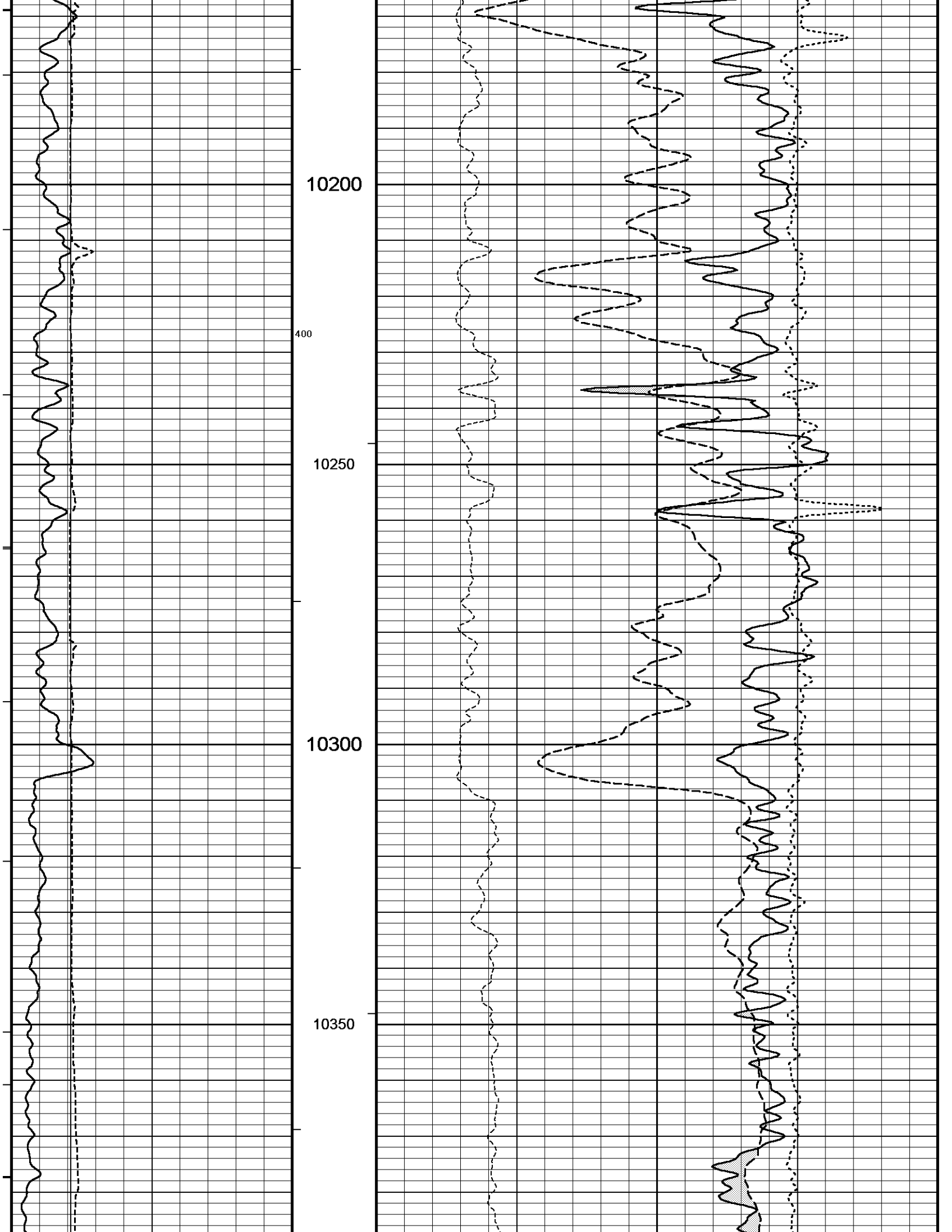


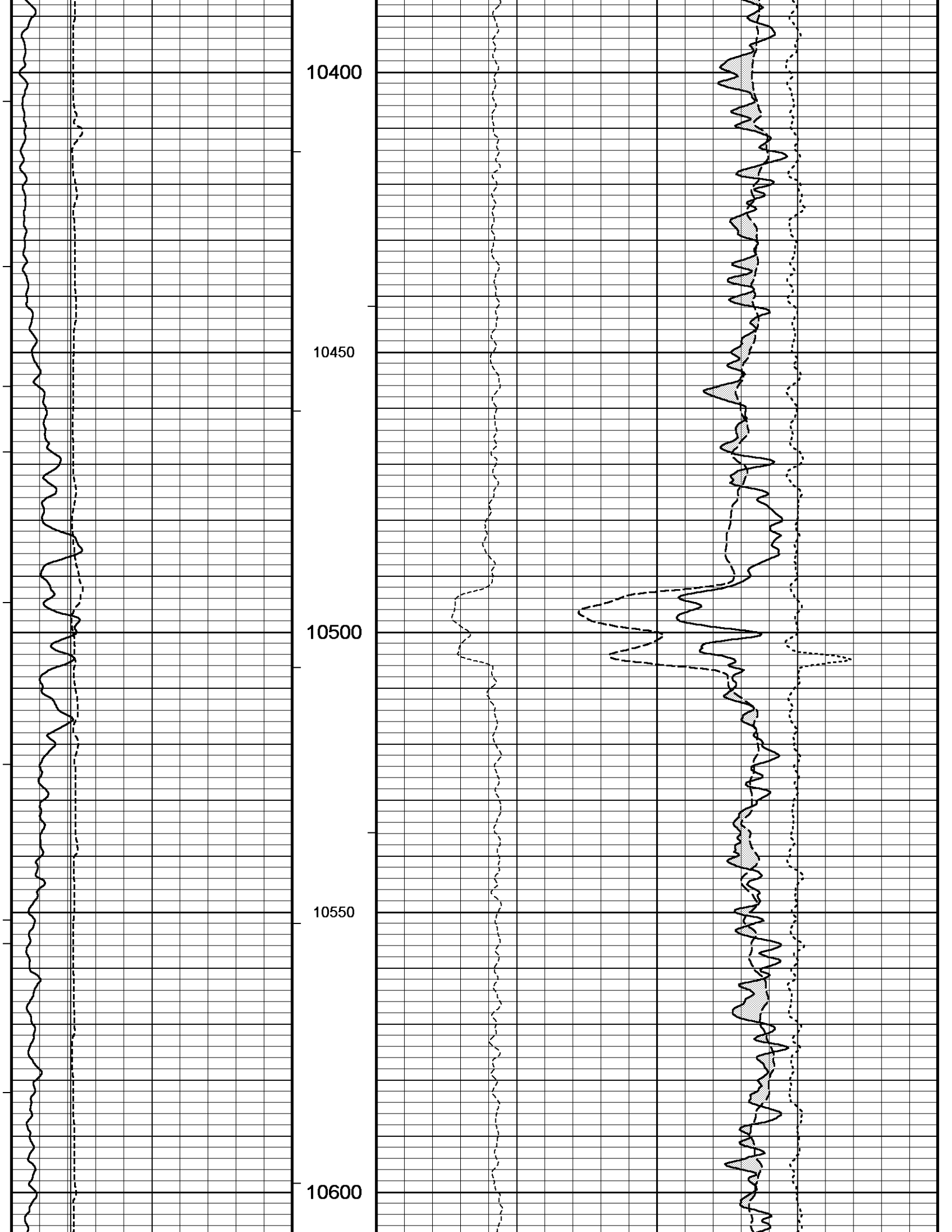


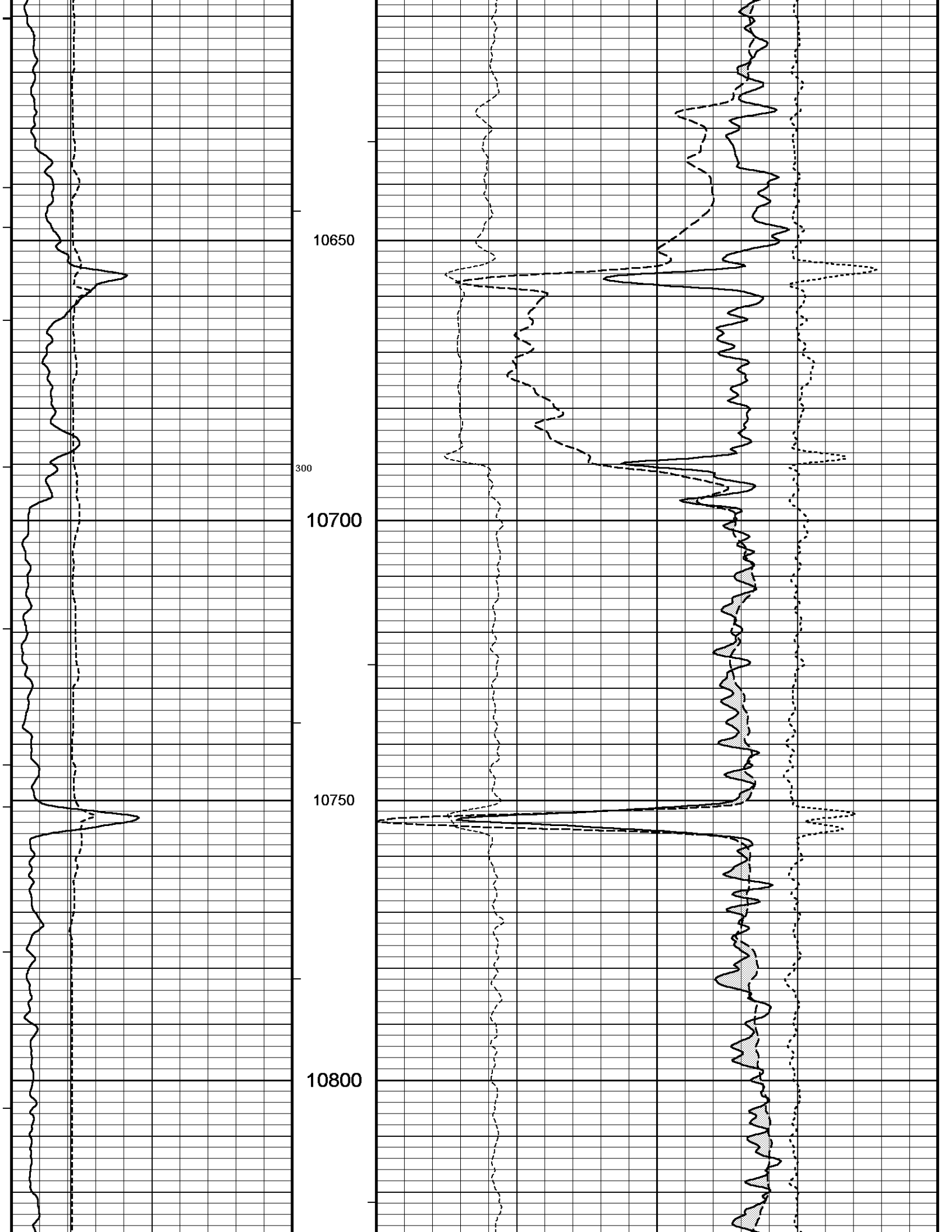


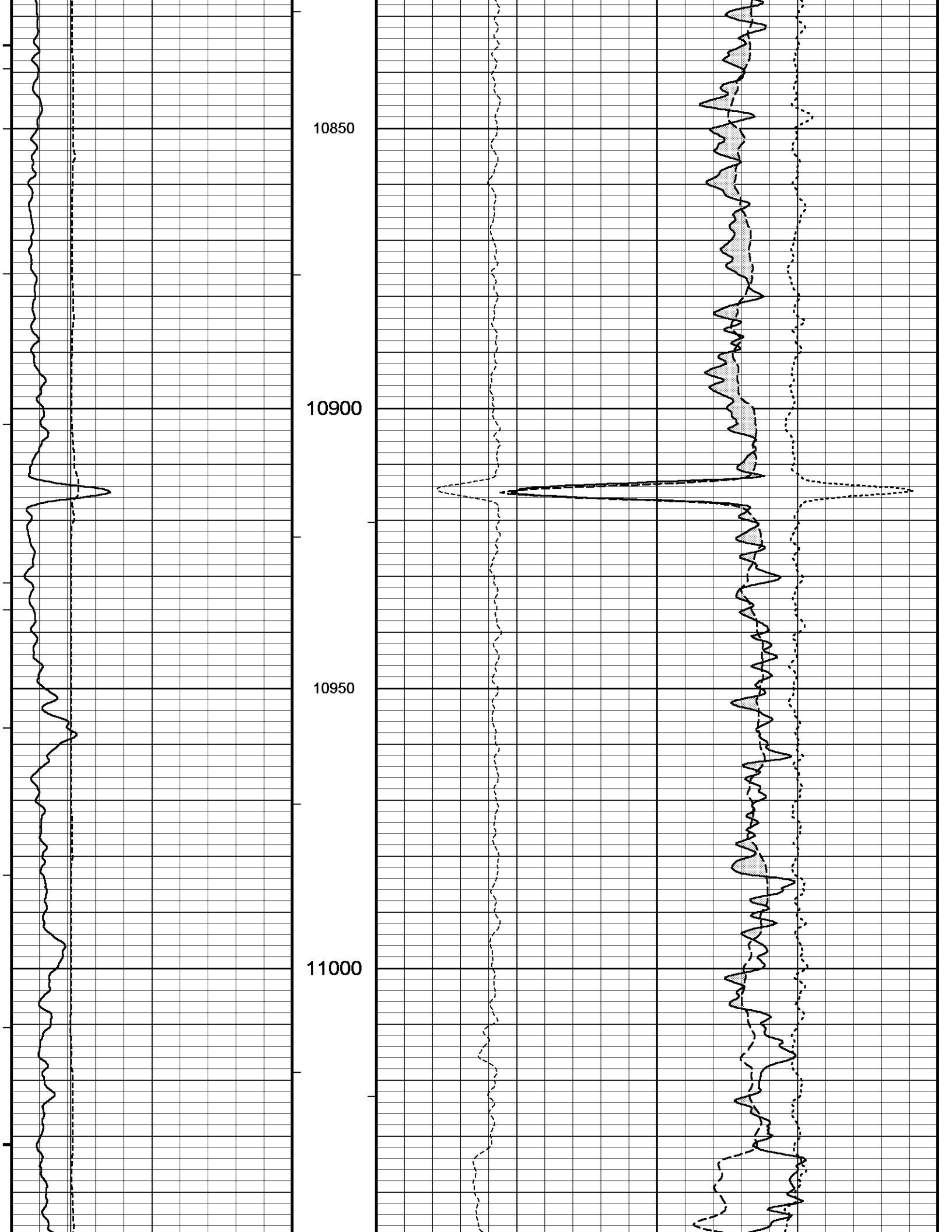


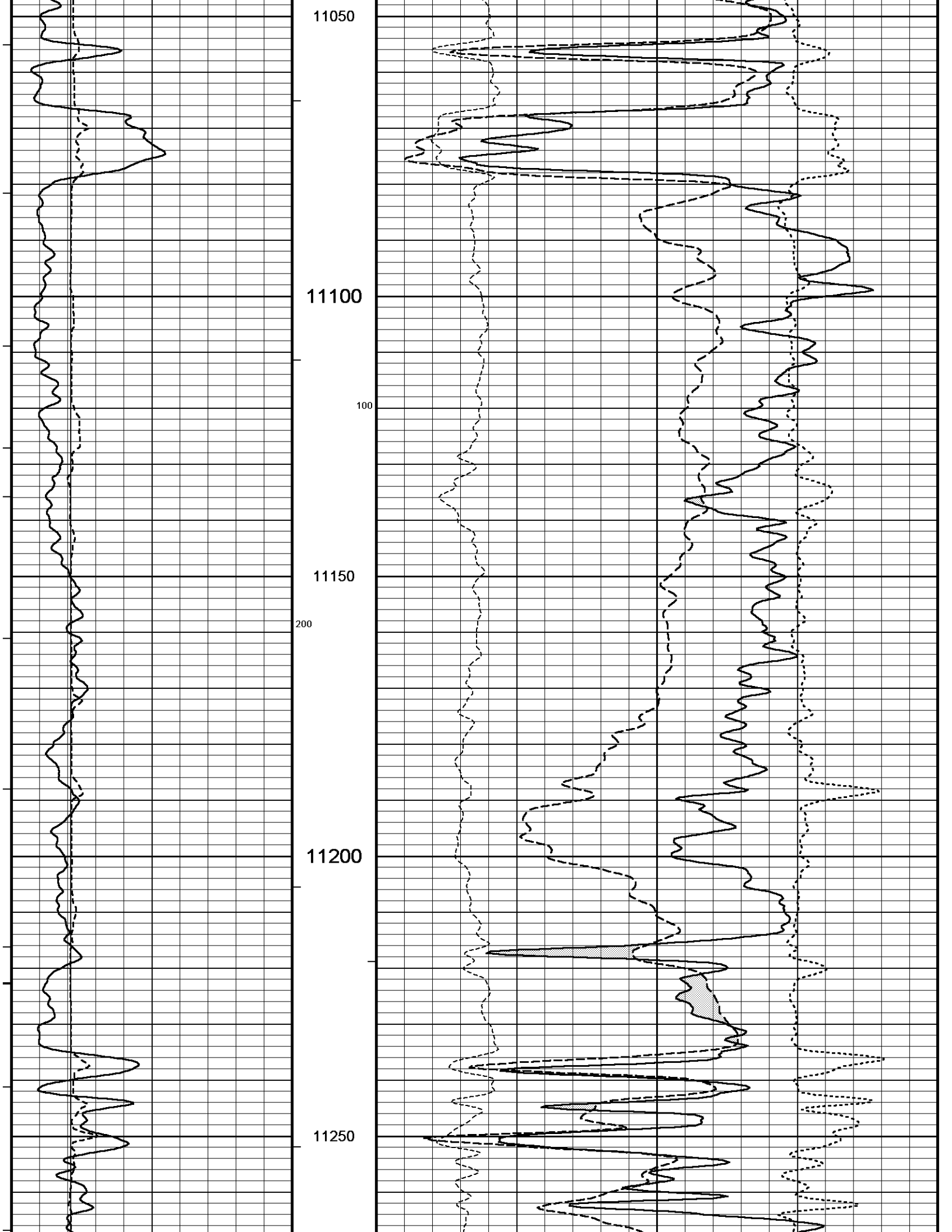


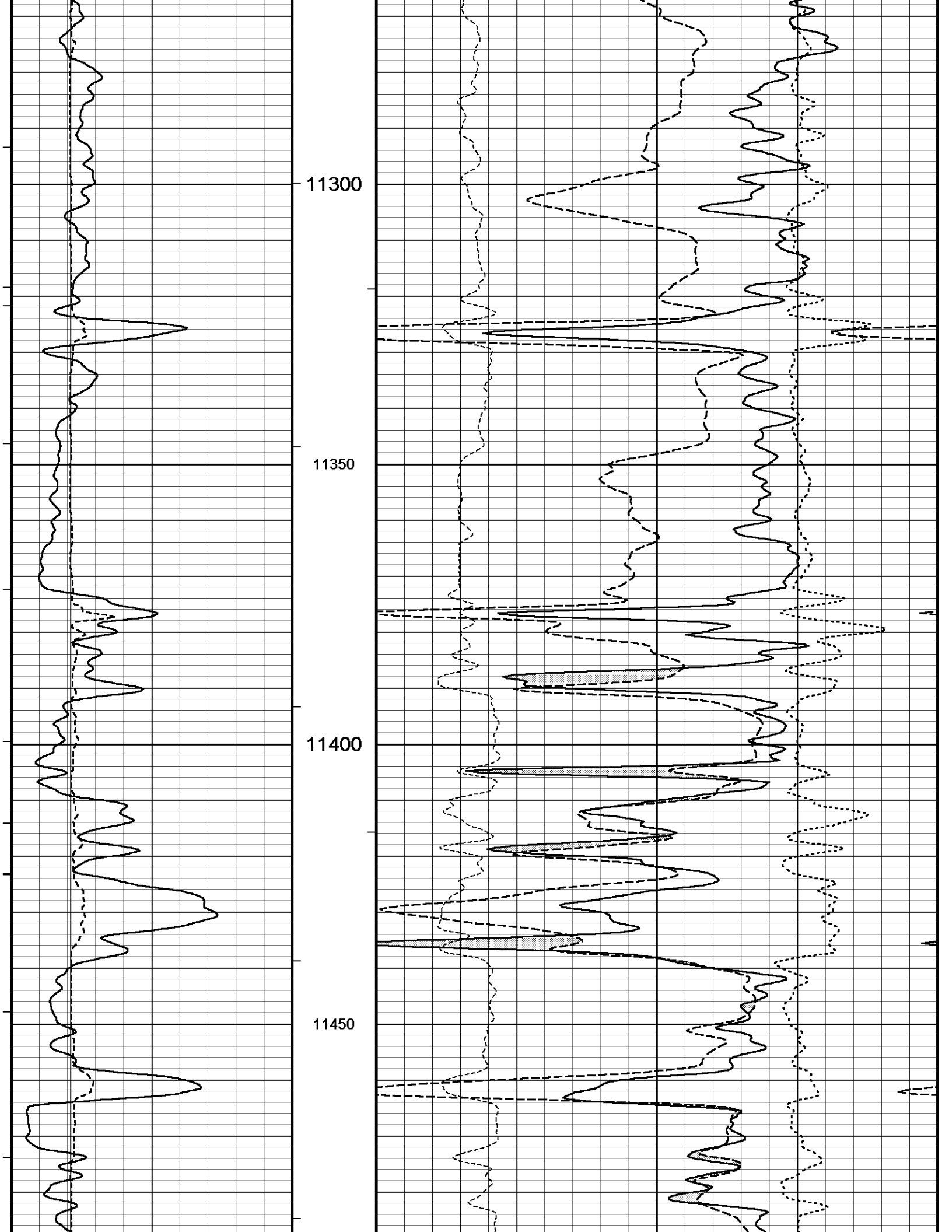


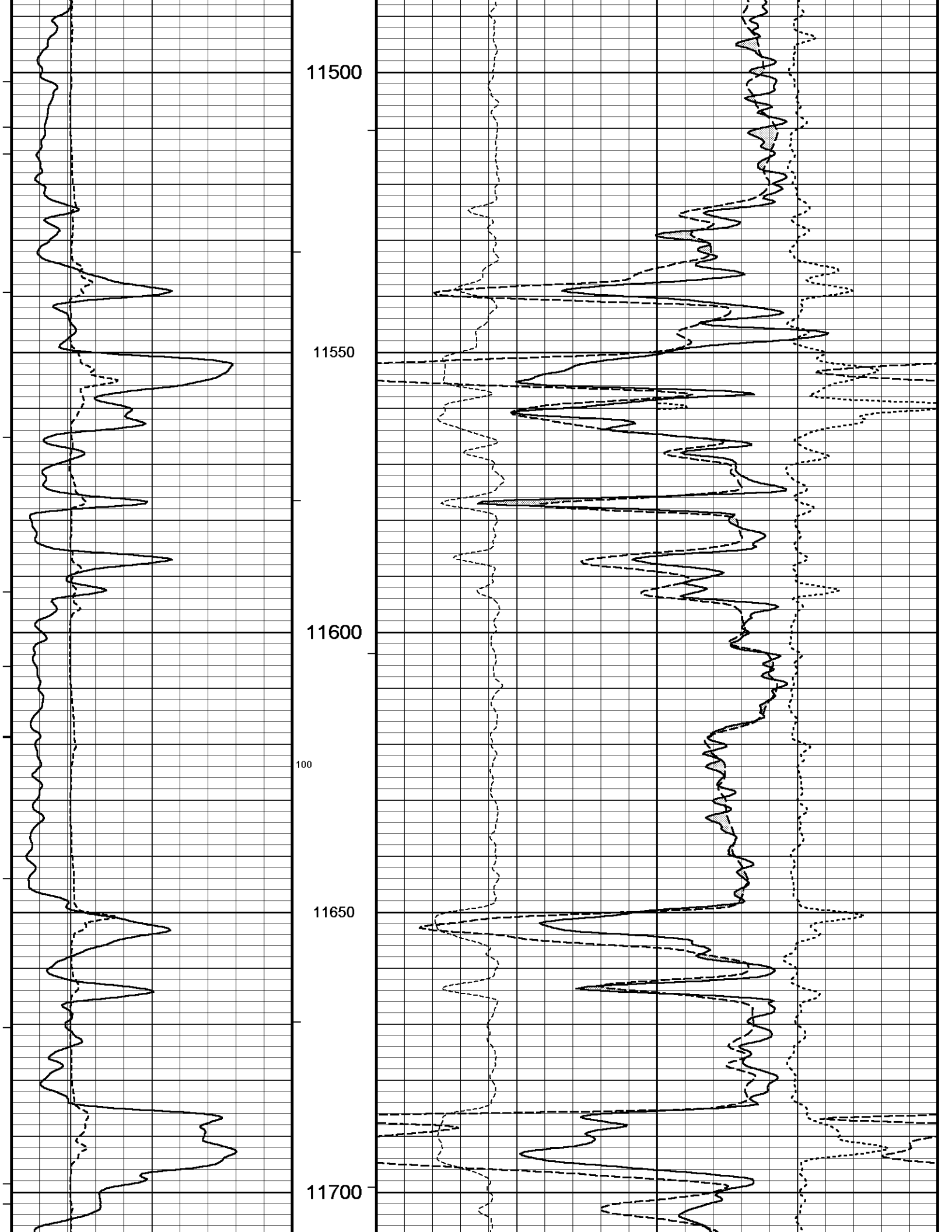


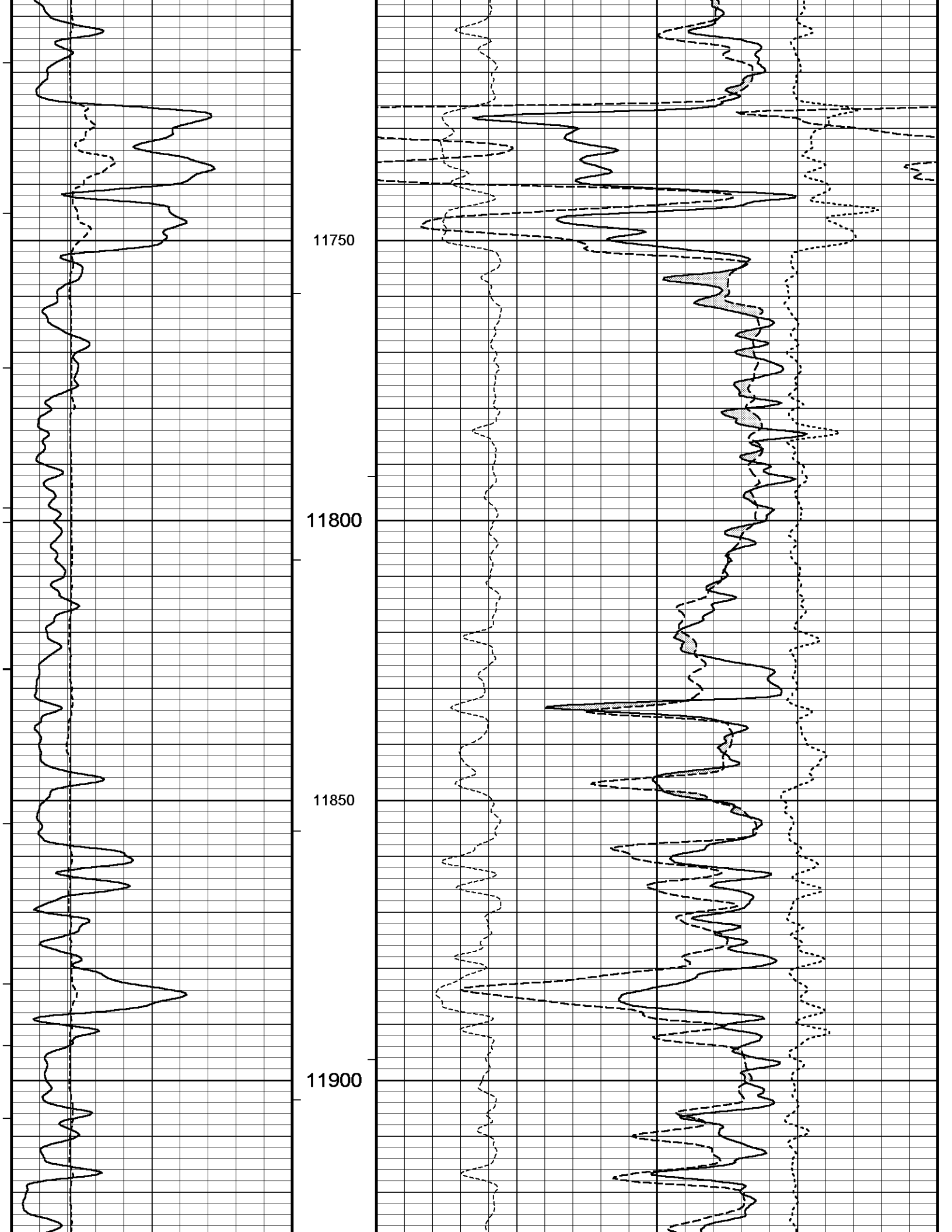


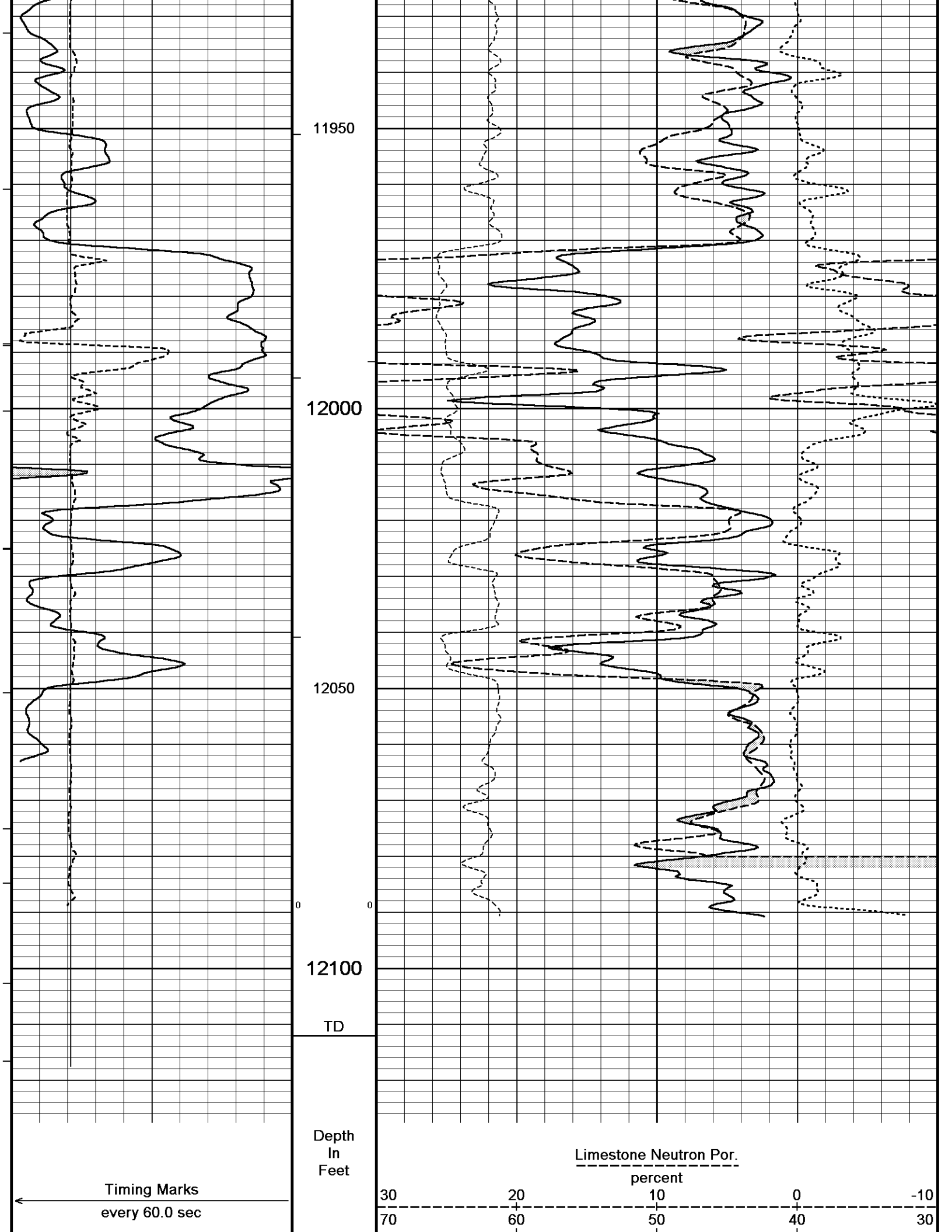












11950

12000

12050

0

12100

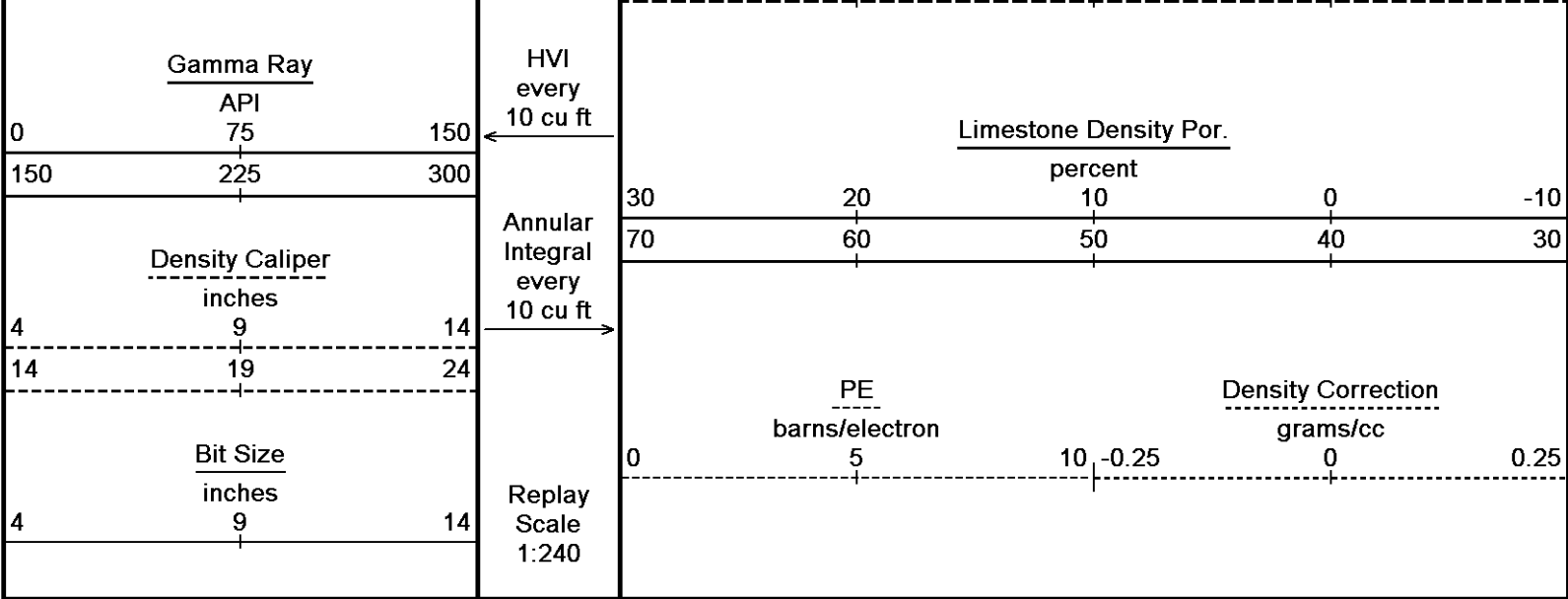
TD

Depth
In
Feet

Limestone Neutron Por.
percent

30 20 10 0 -10
70 60 50 40 30

Timing Marks
every 60.0 sec

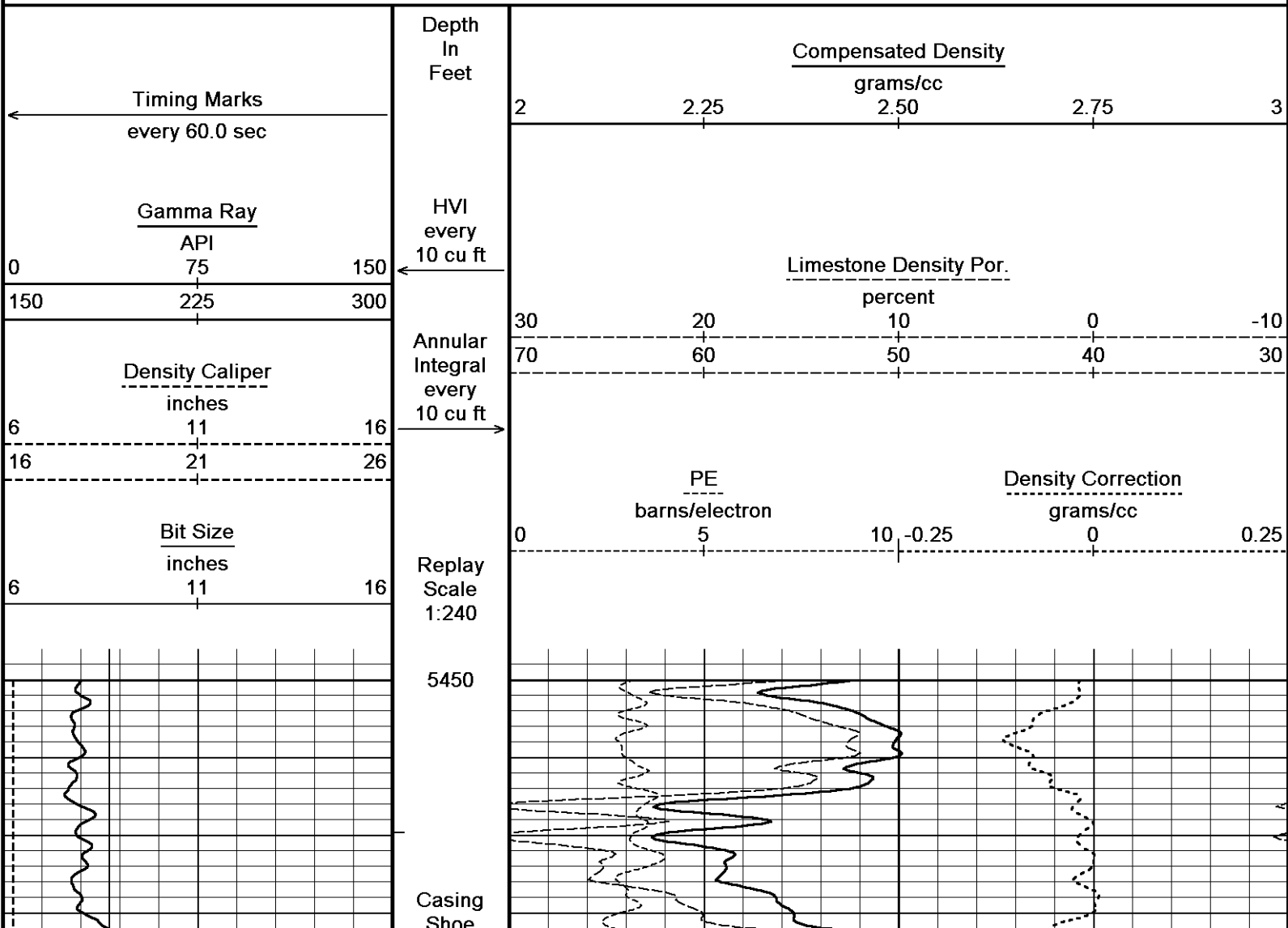


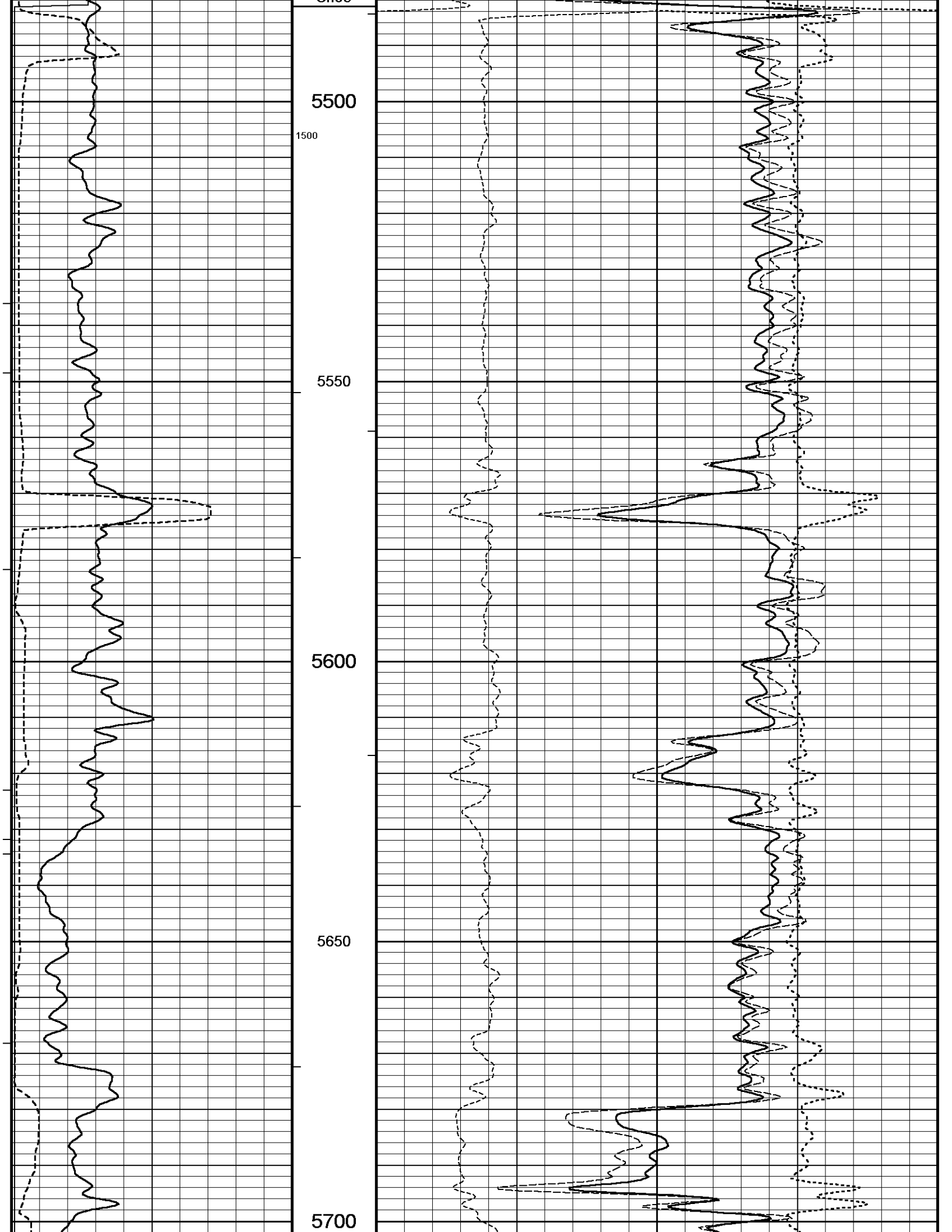
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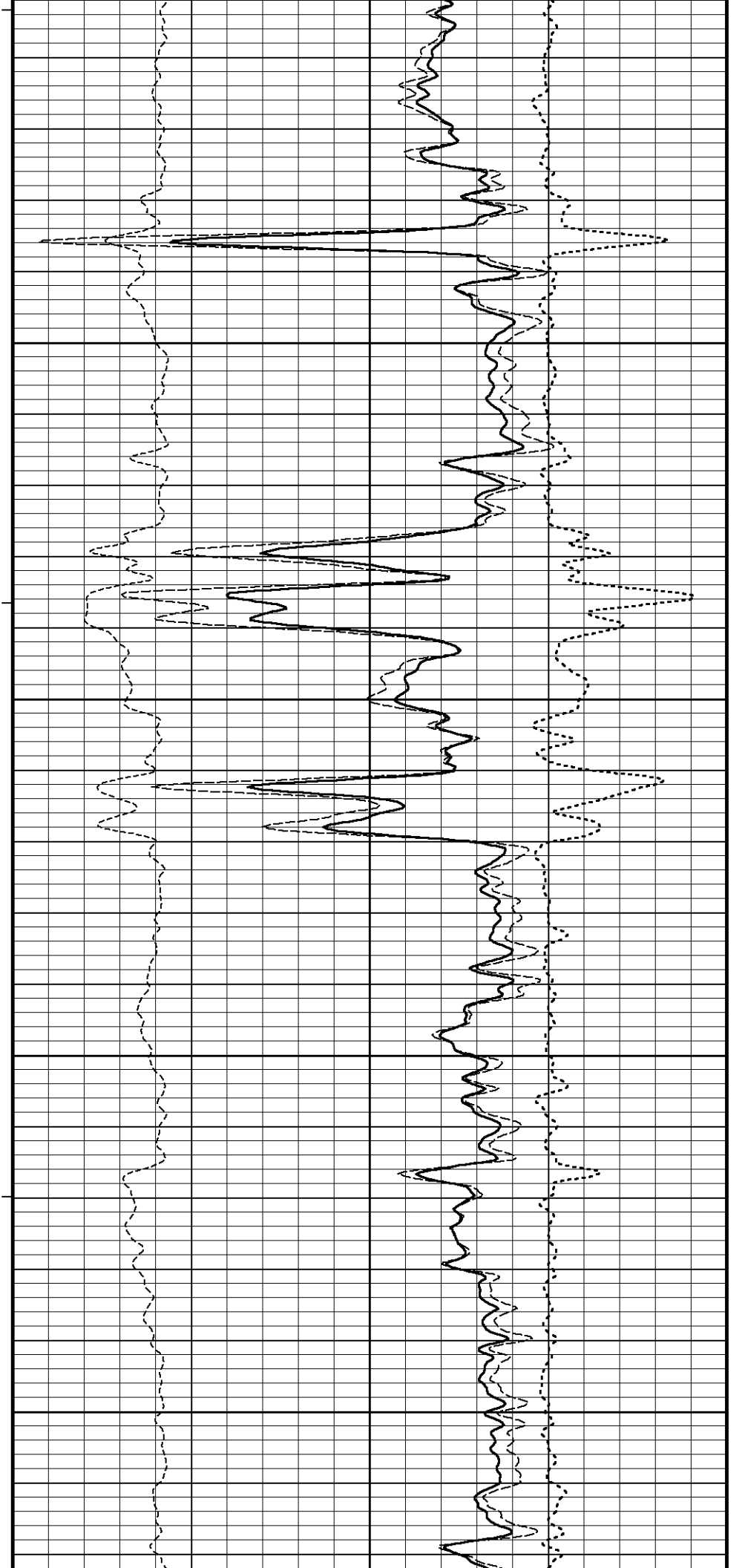
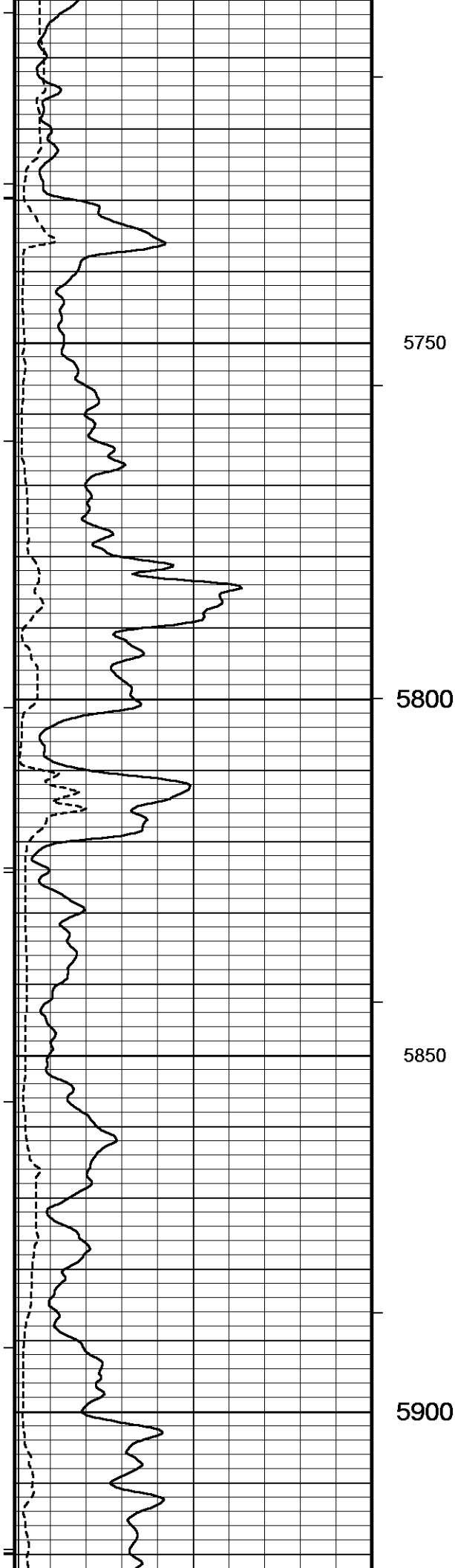
↑ 5 INCH POROSITY LOG ↑

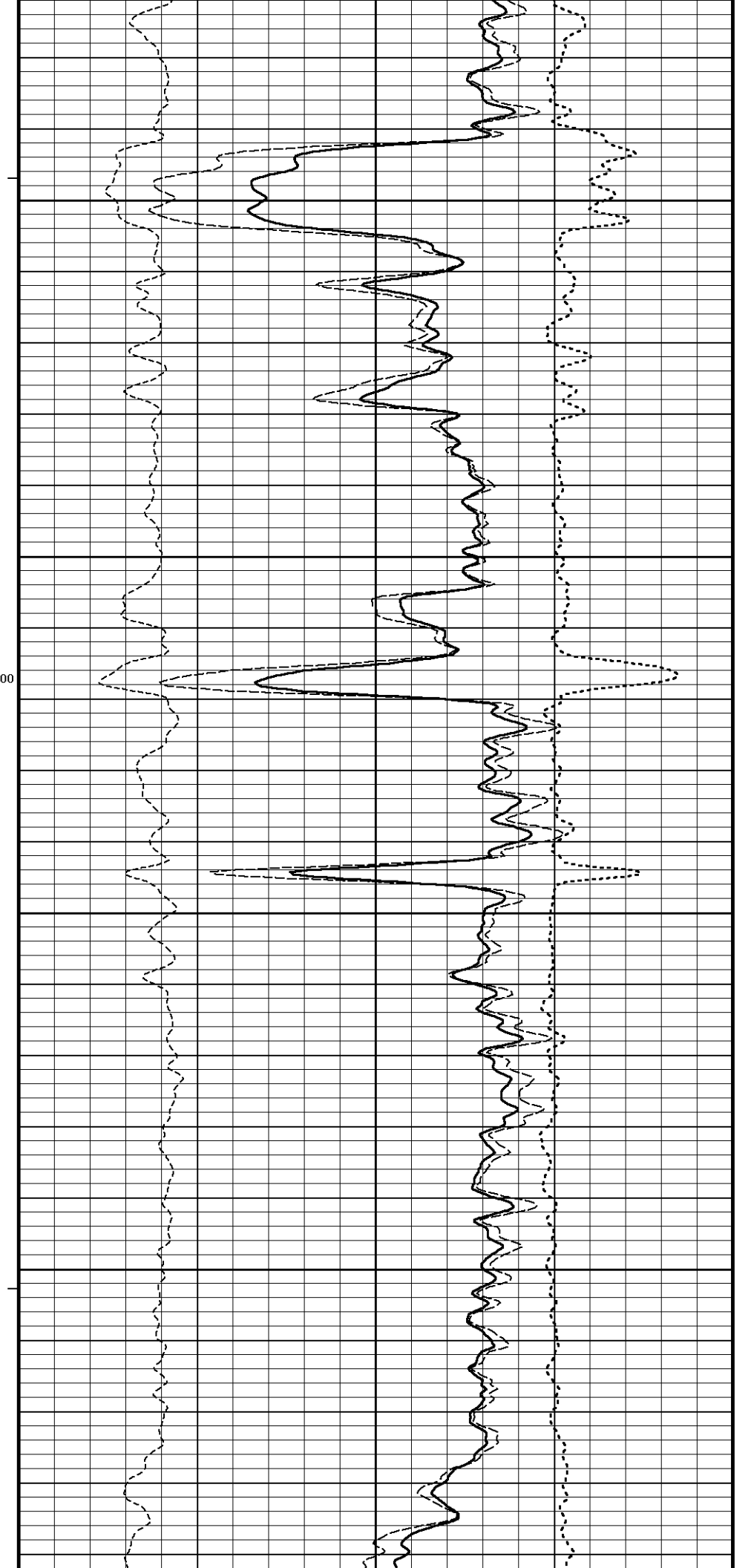
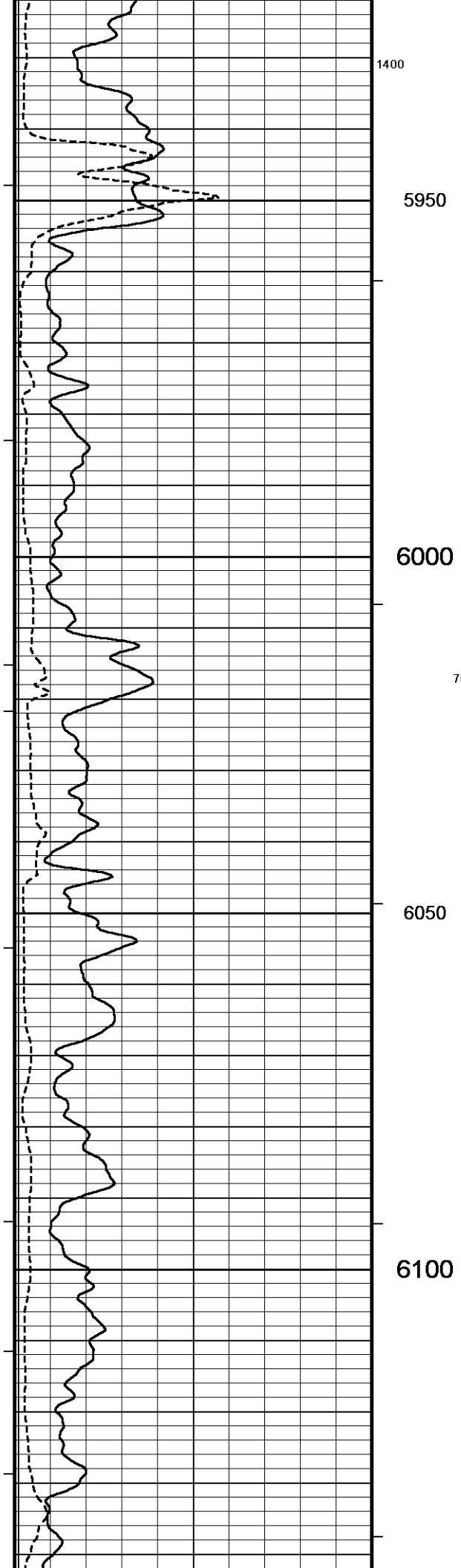
↓ 5 INCH BULK DENSITY ↓

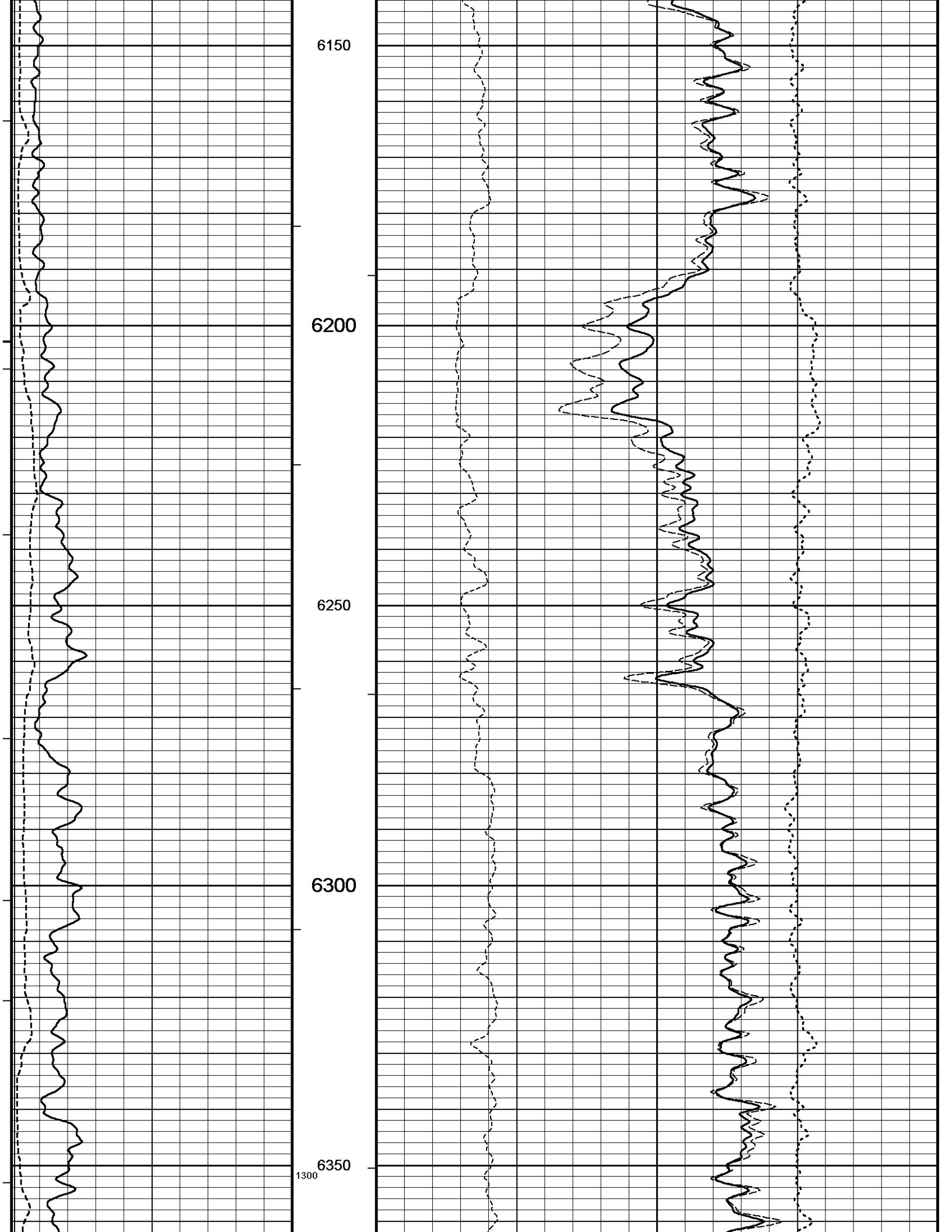
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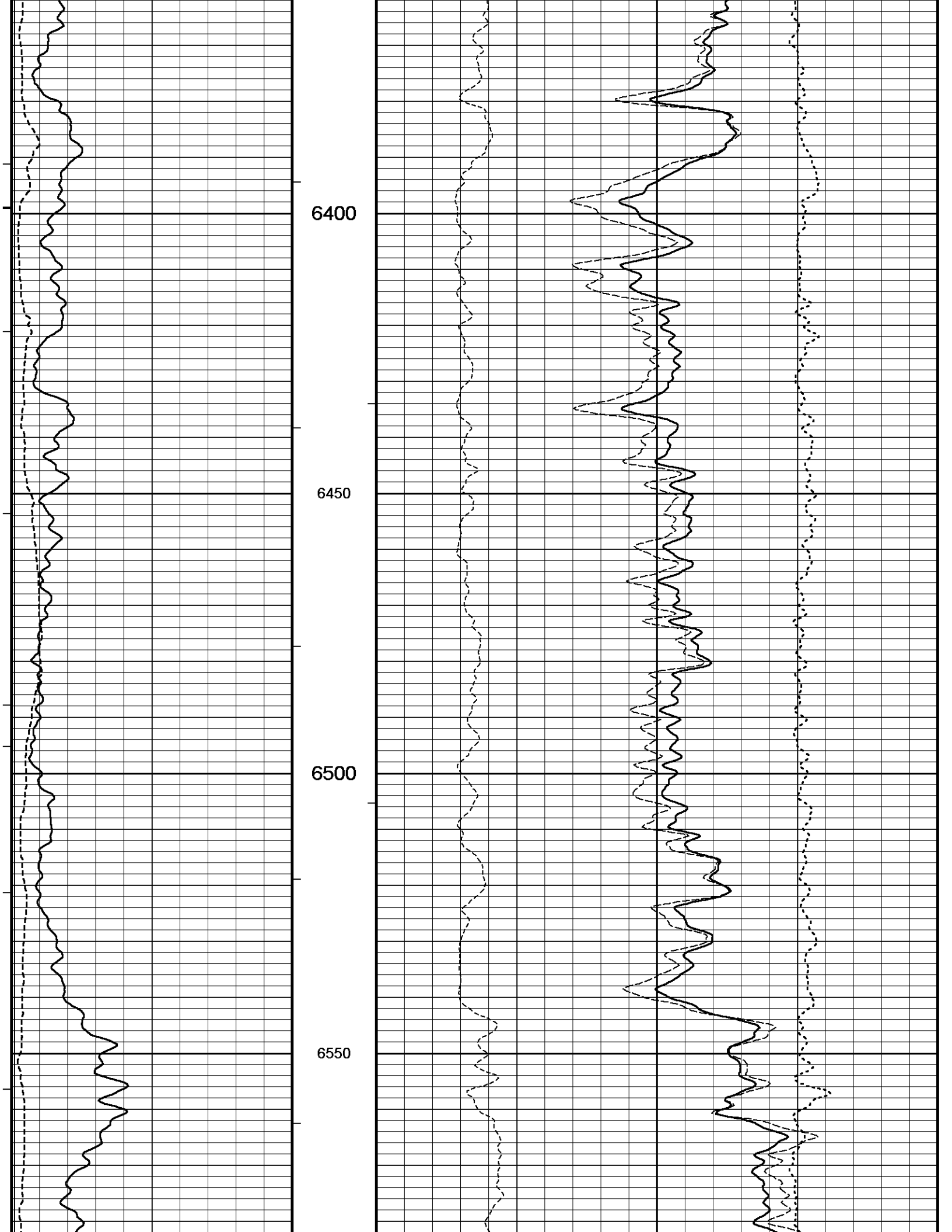


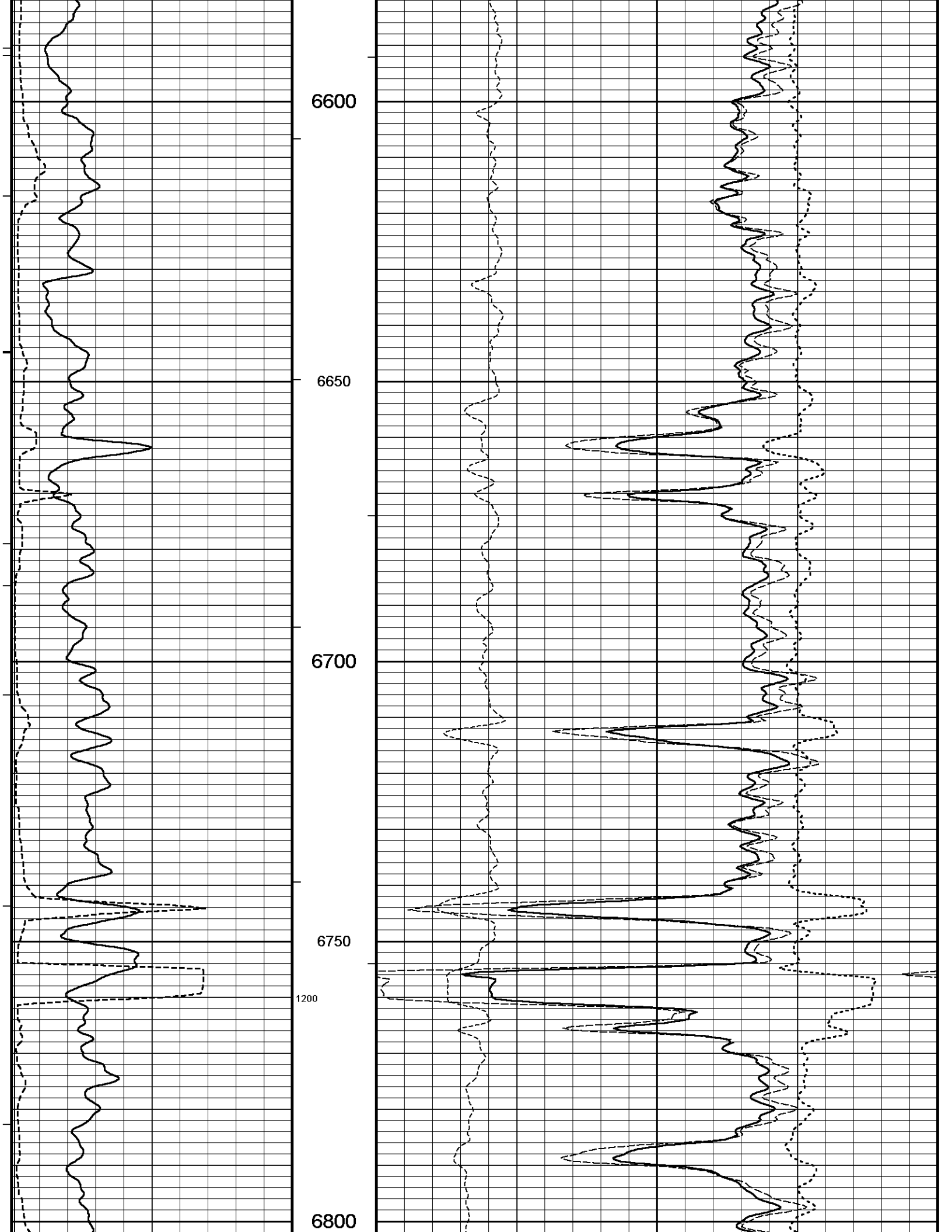


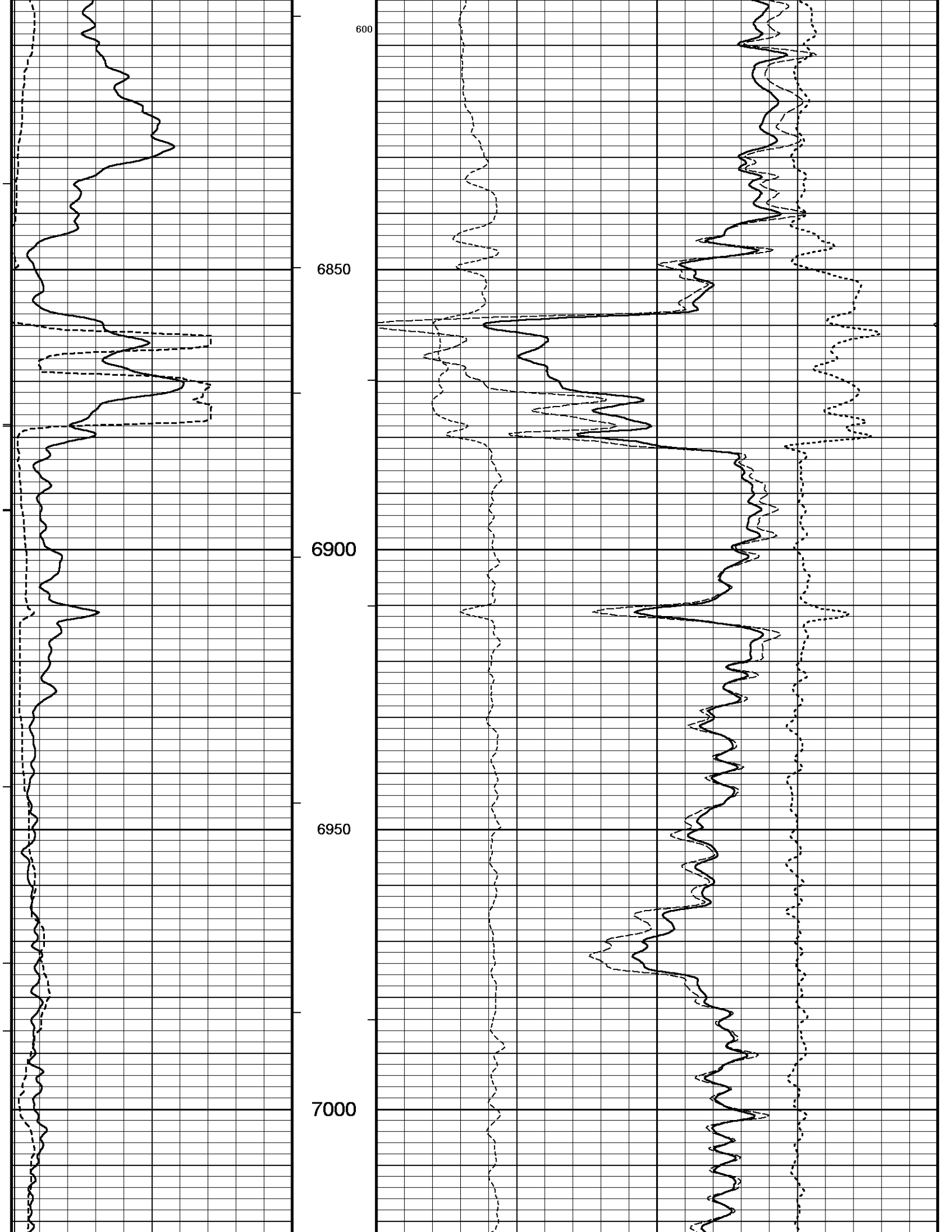


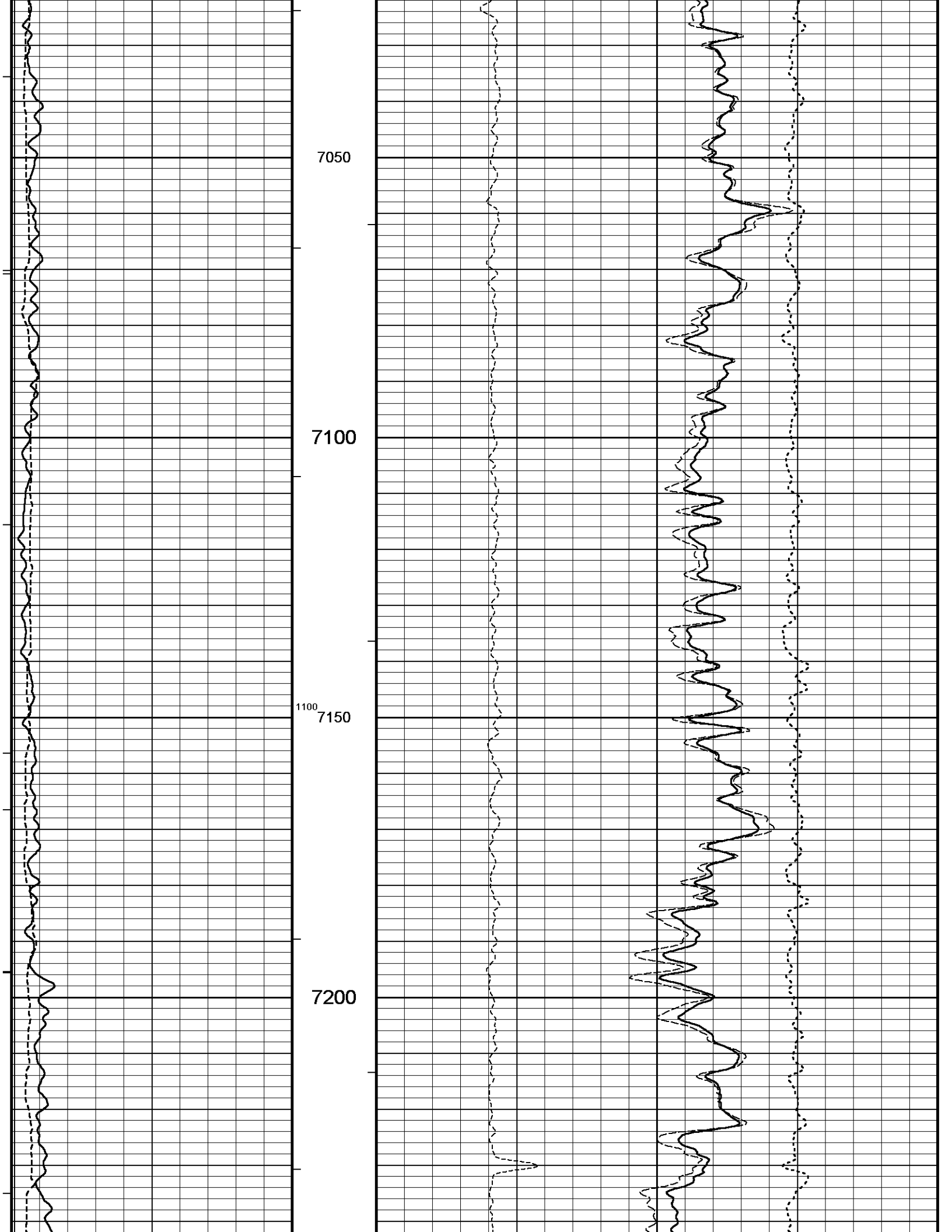


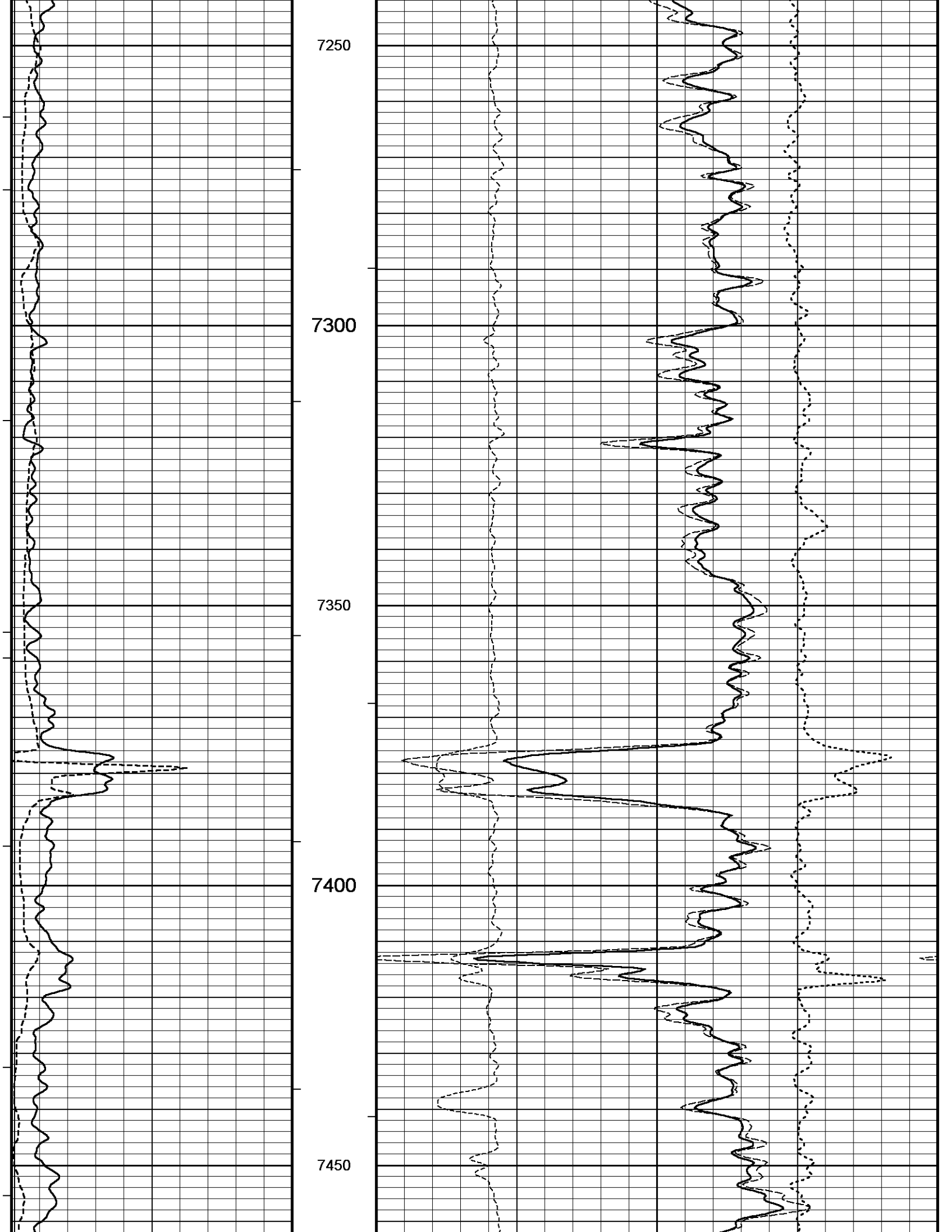


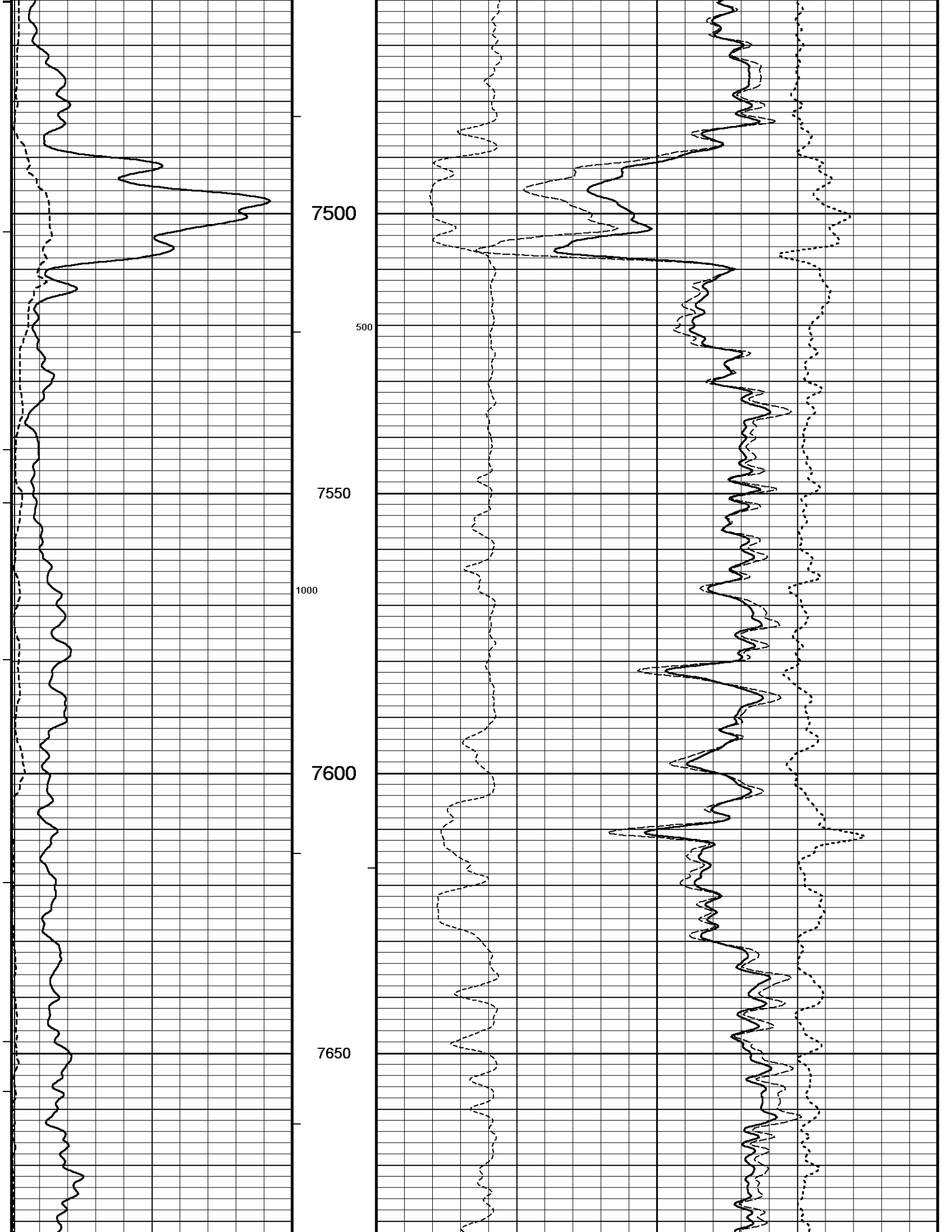


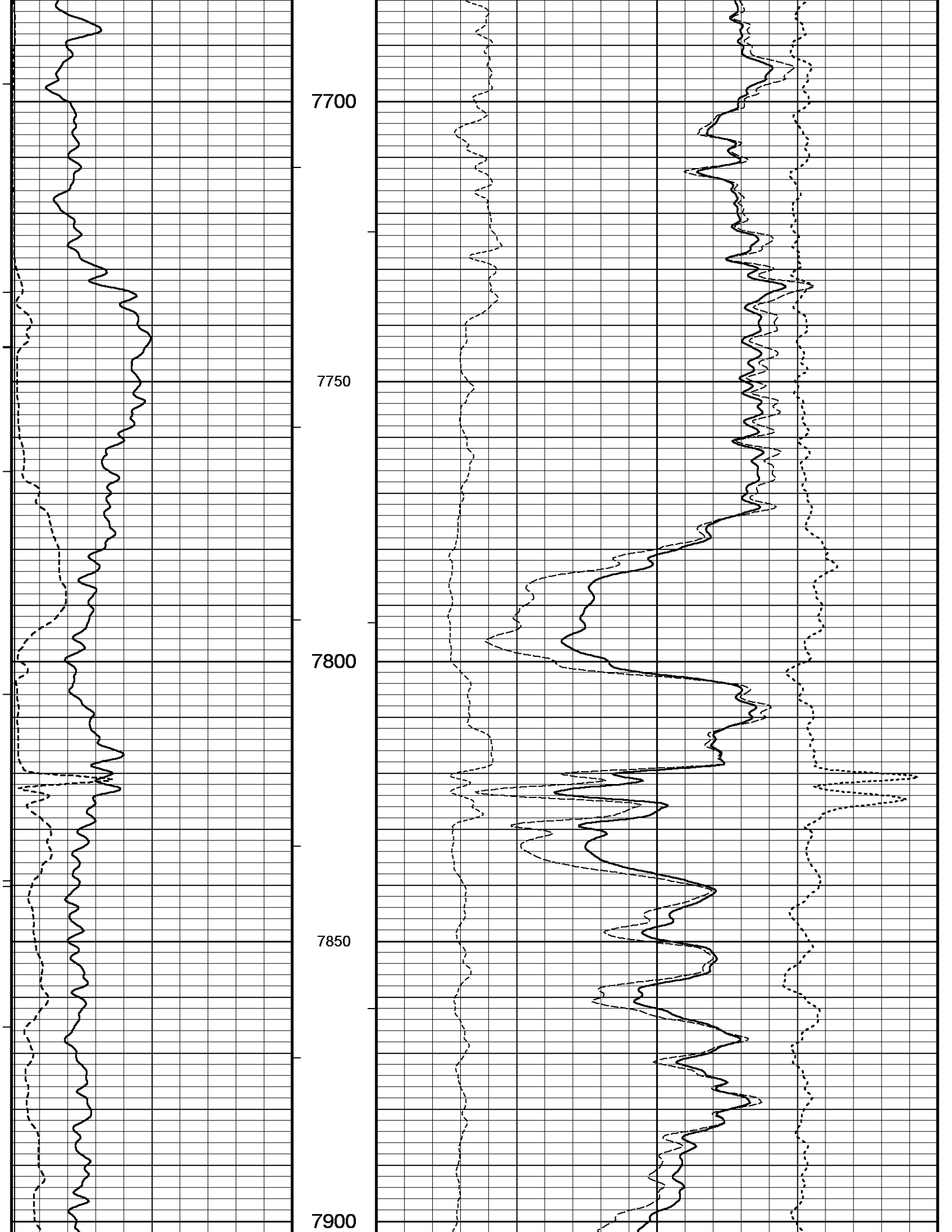


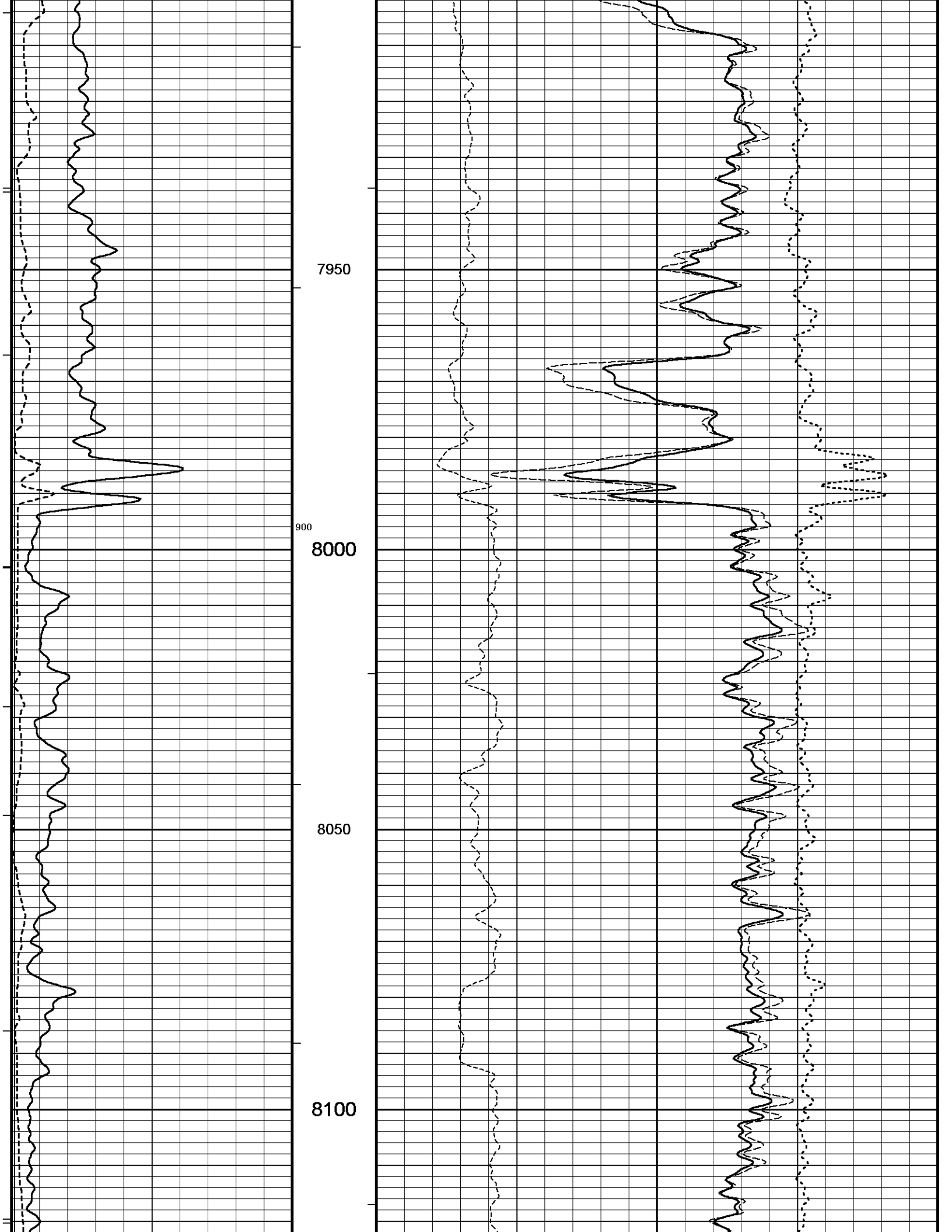


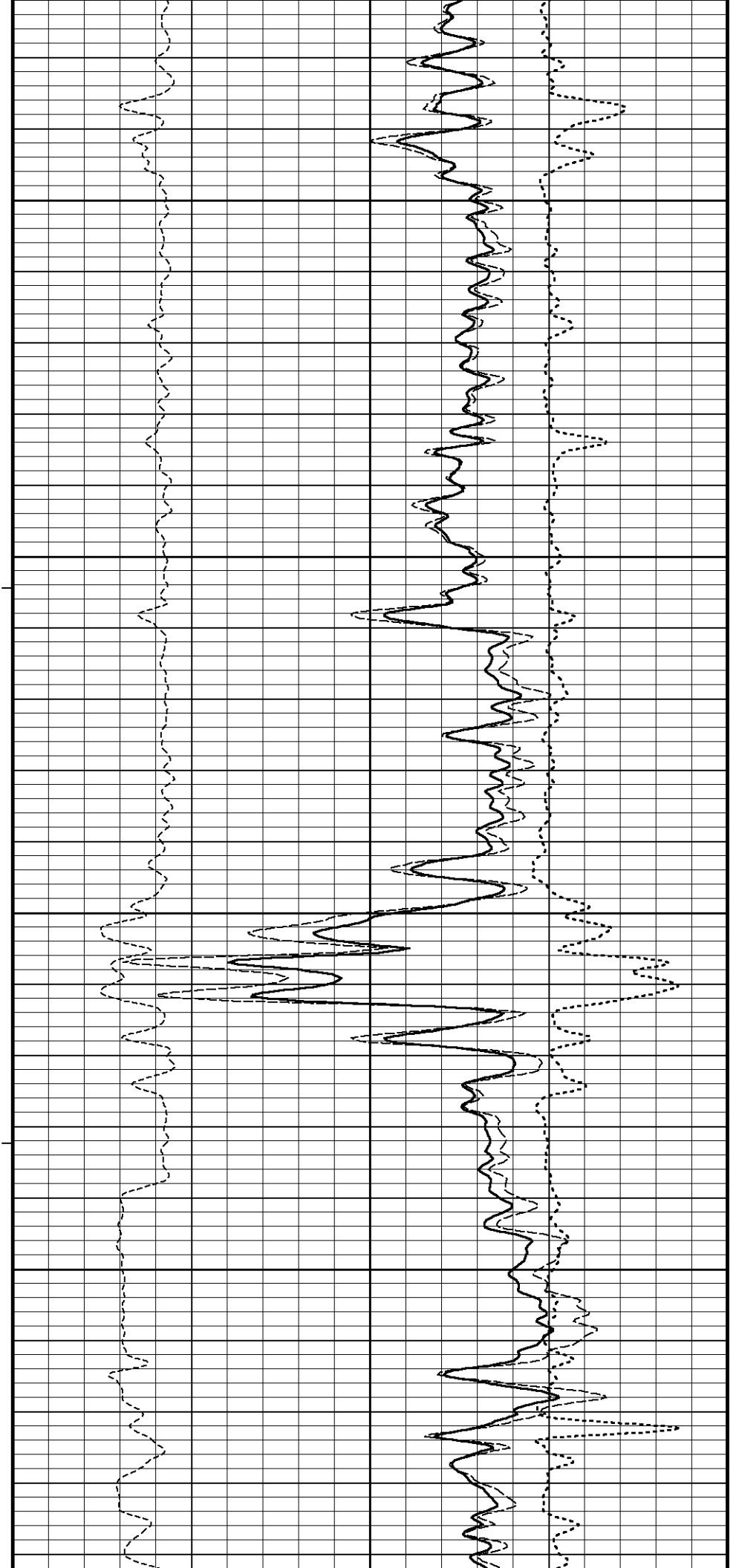
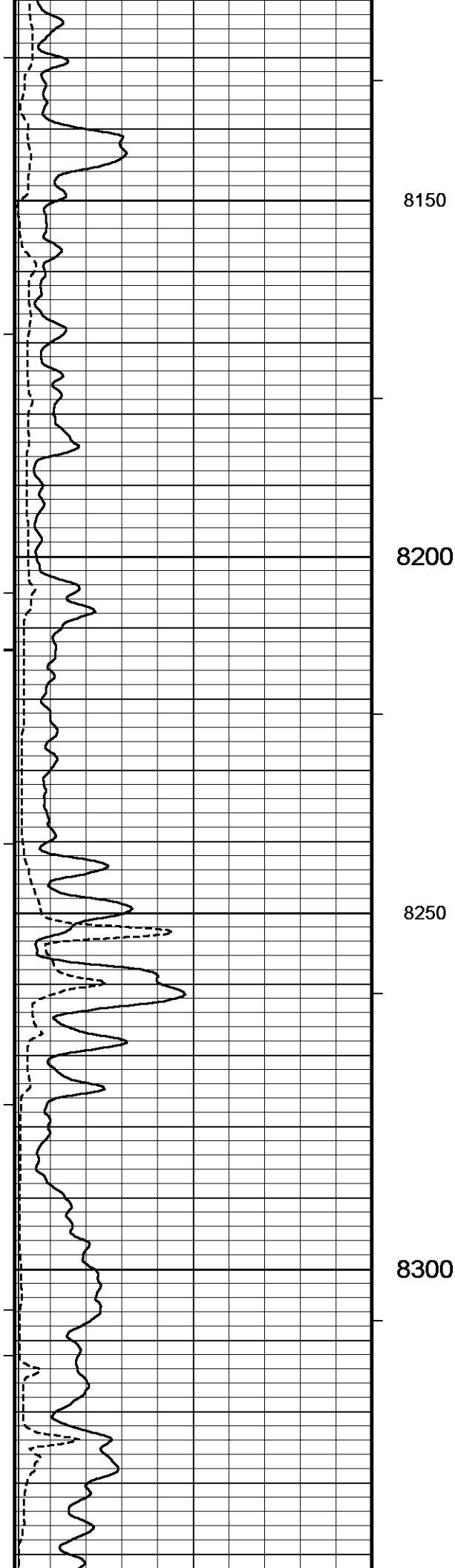


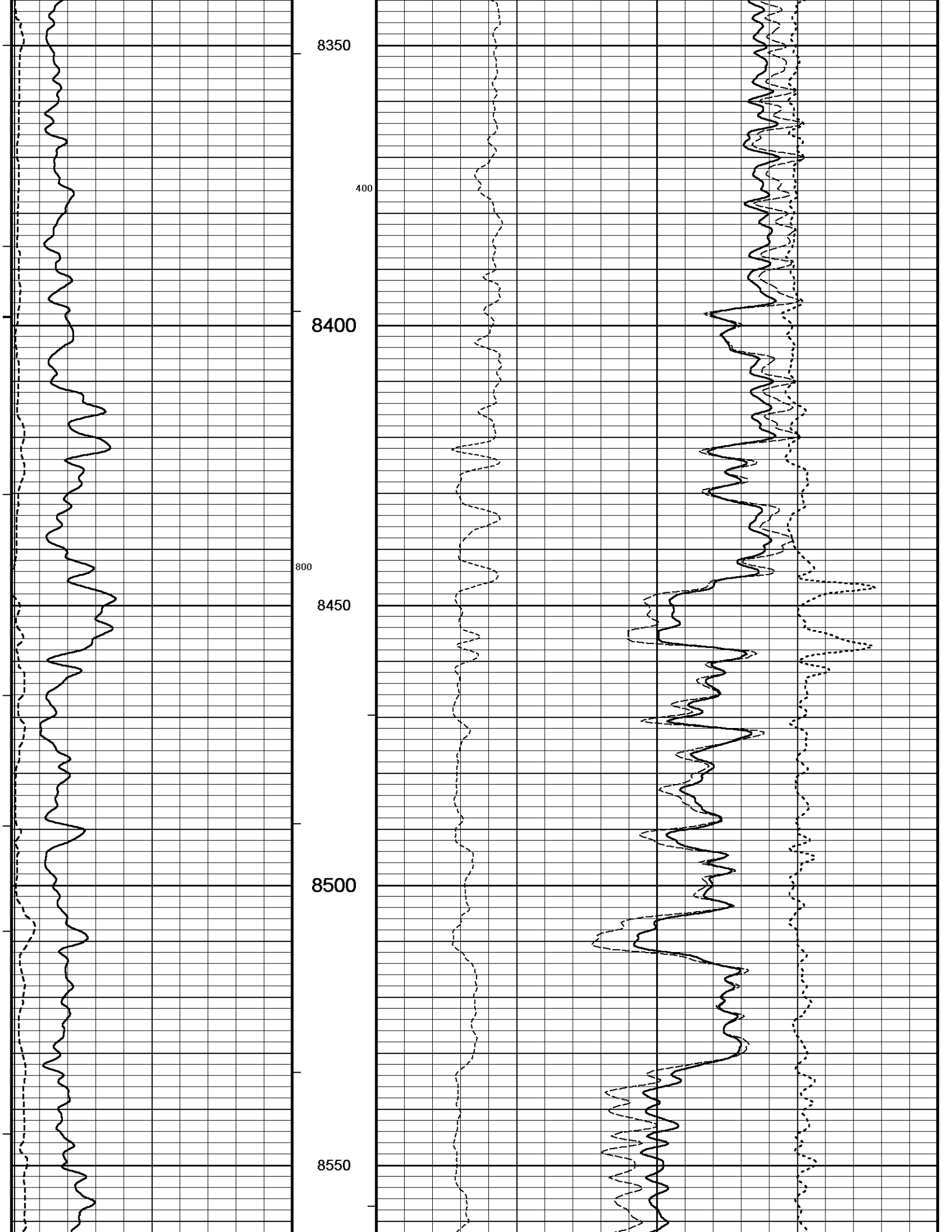


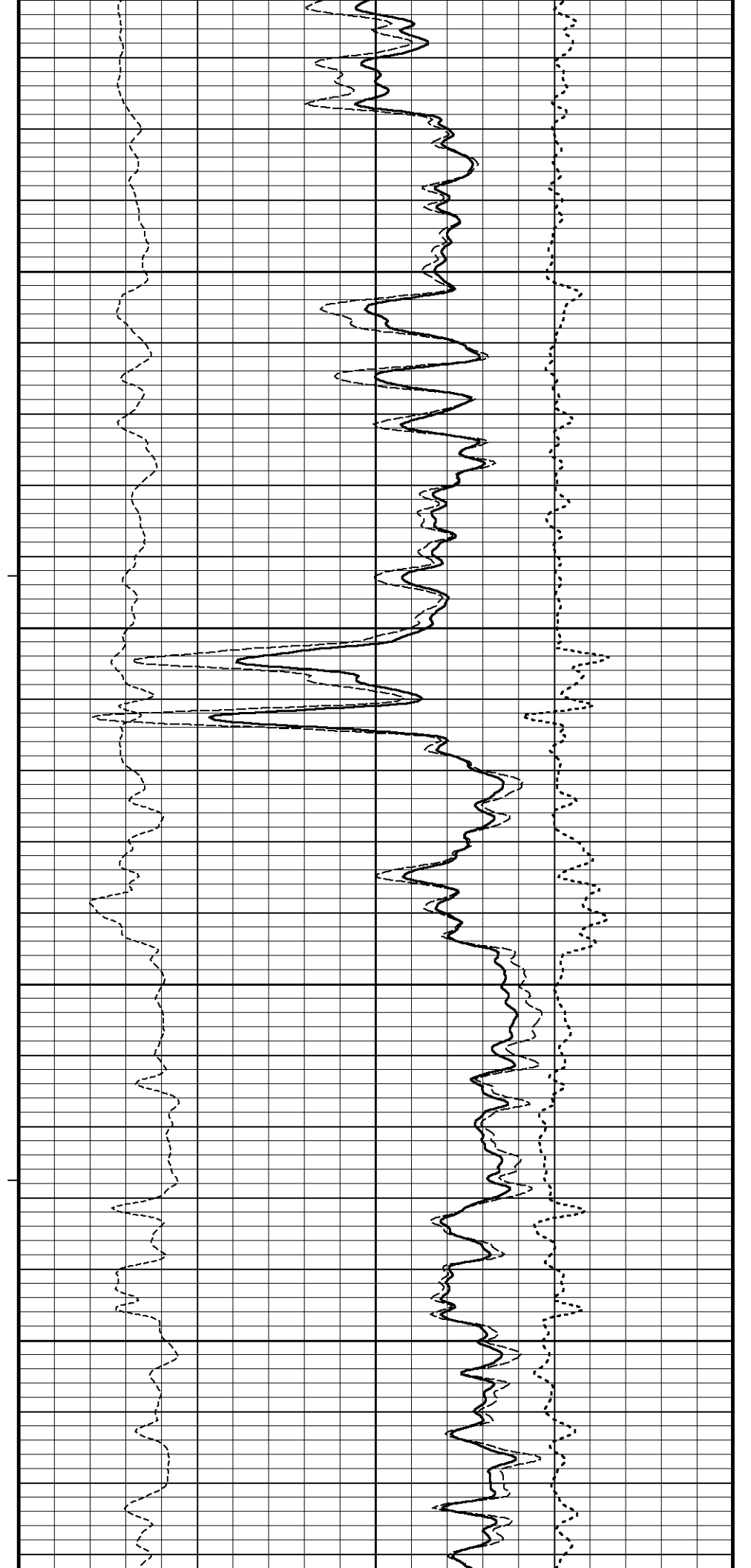
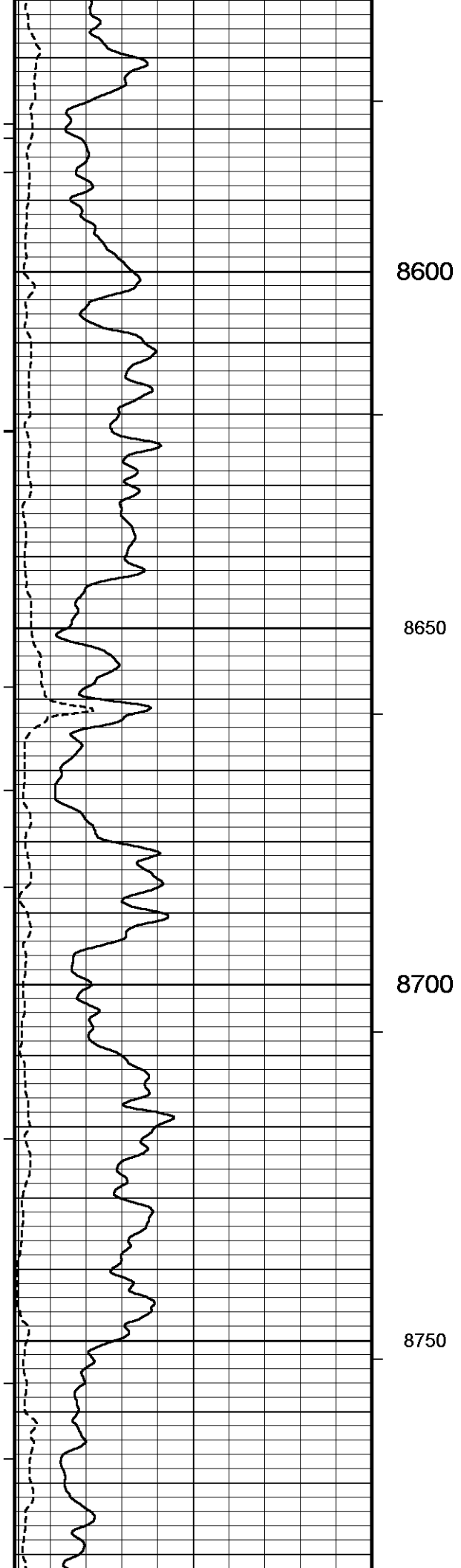


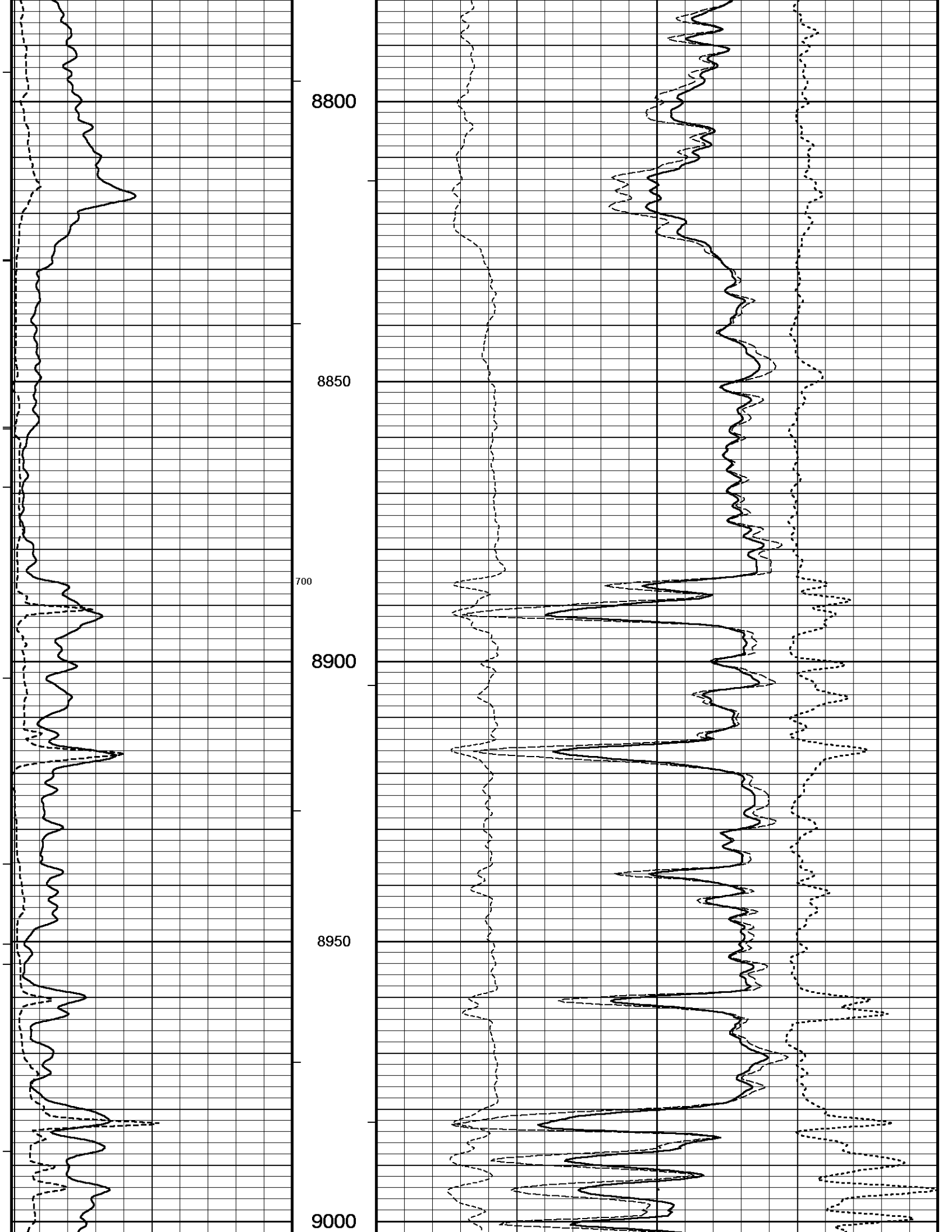


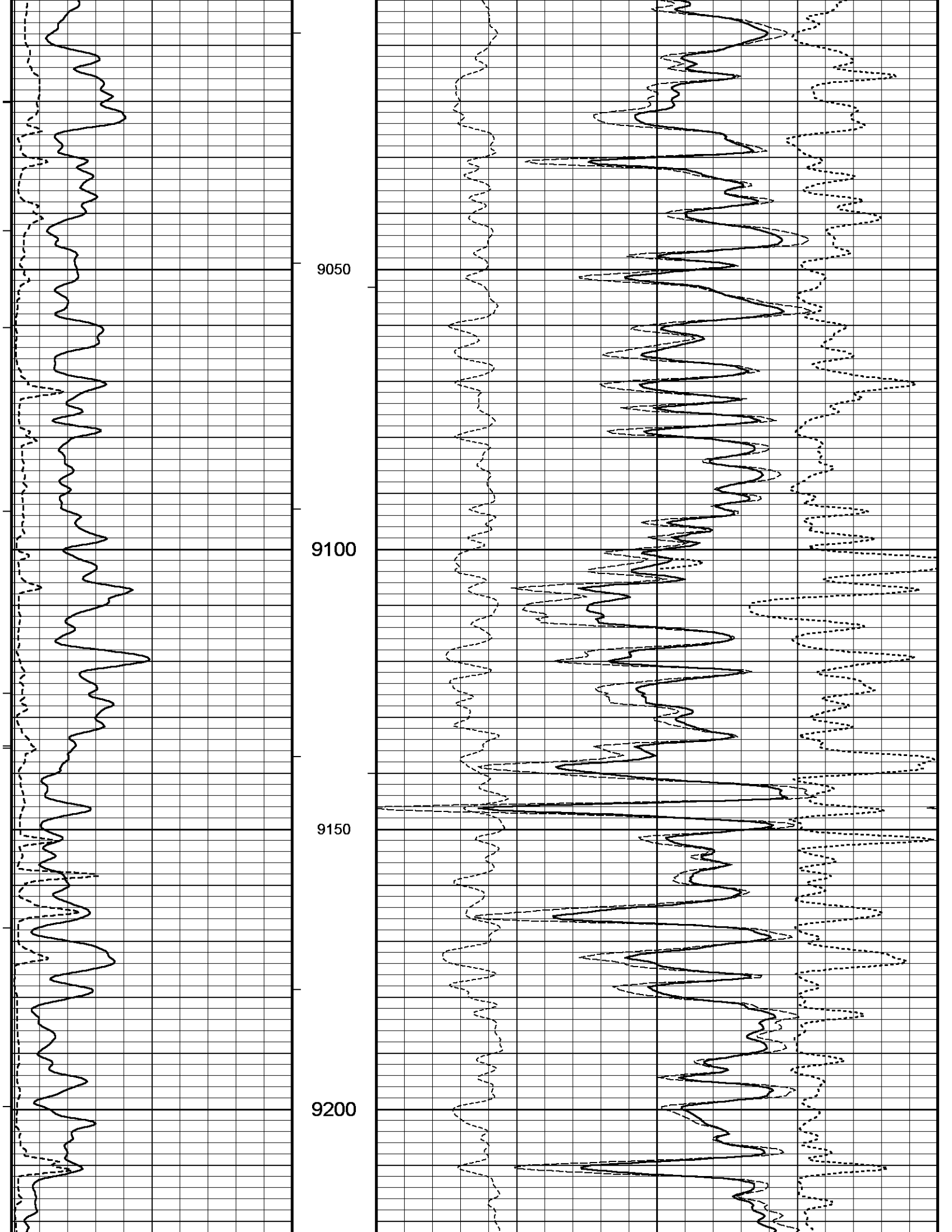


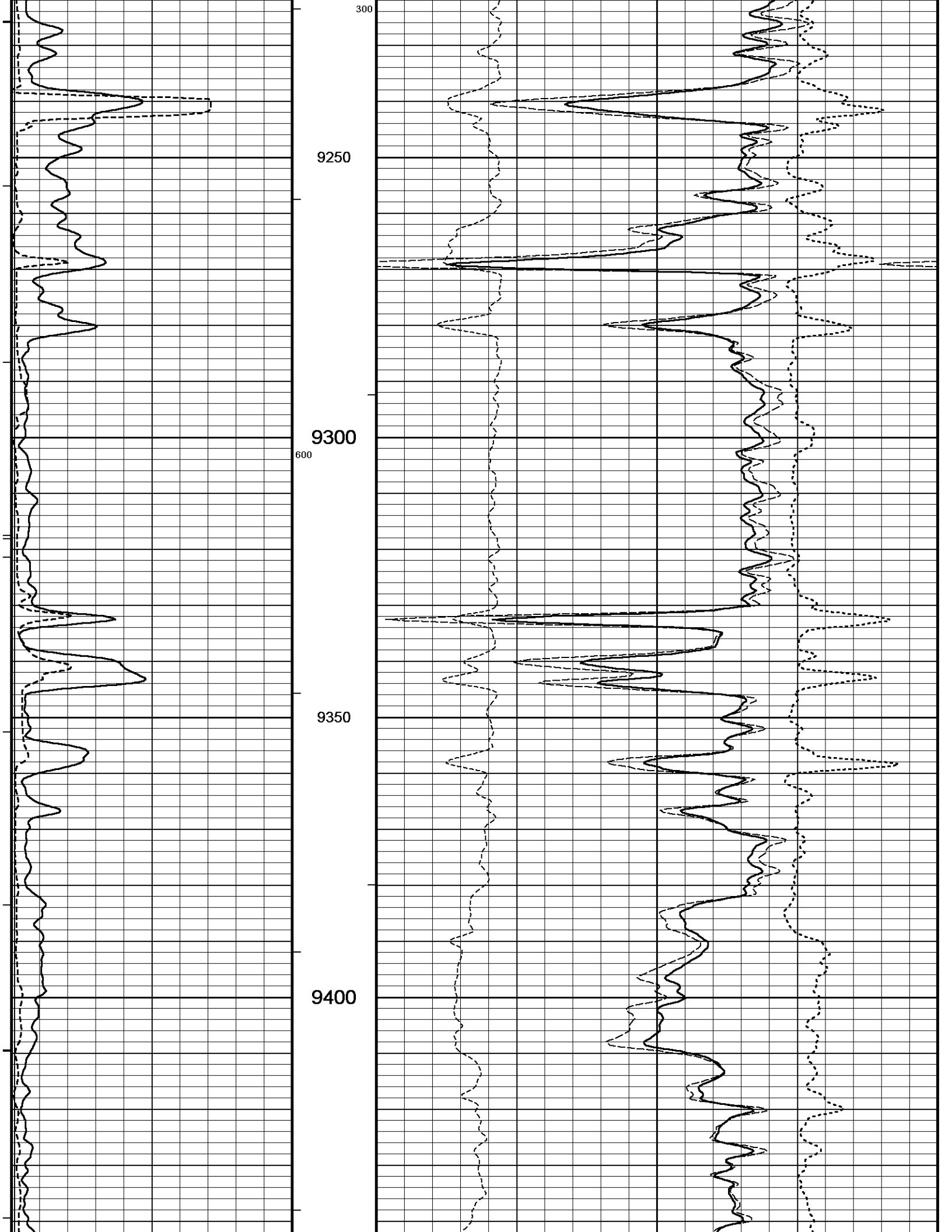


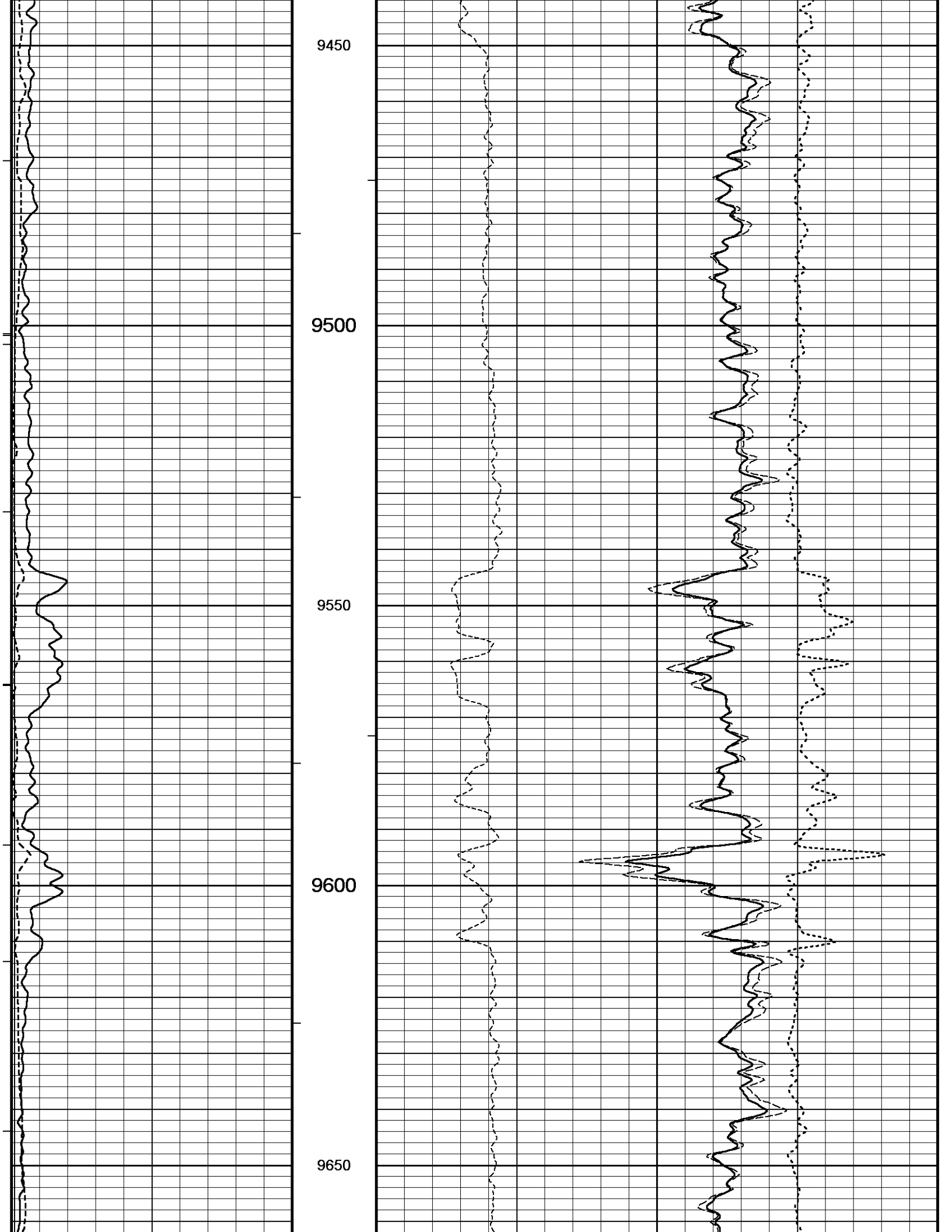


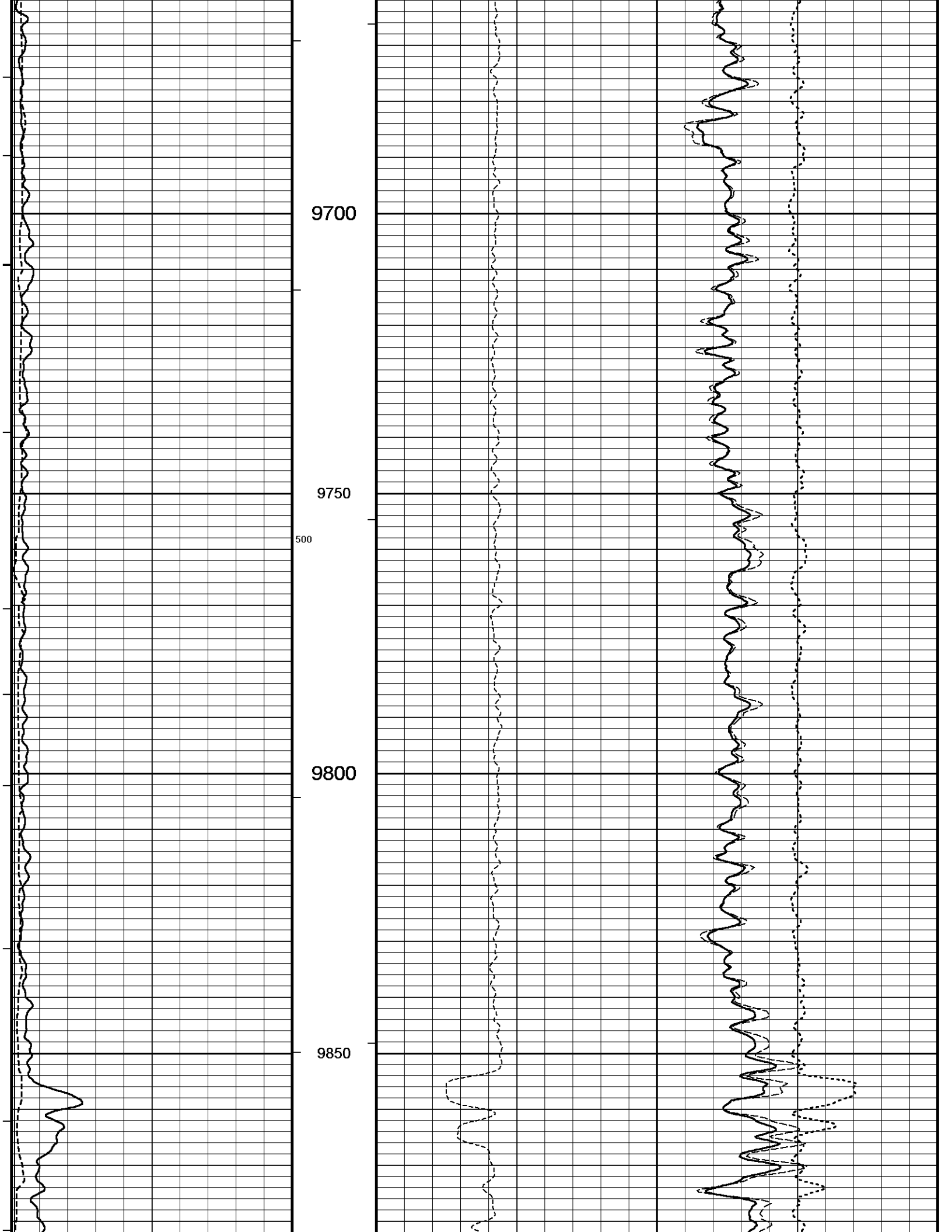


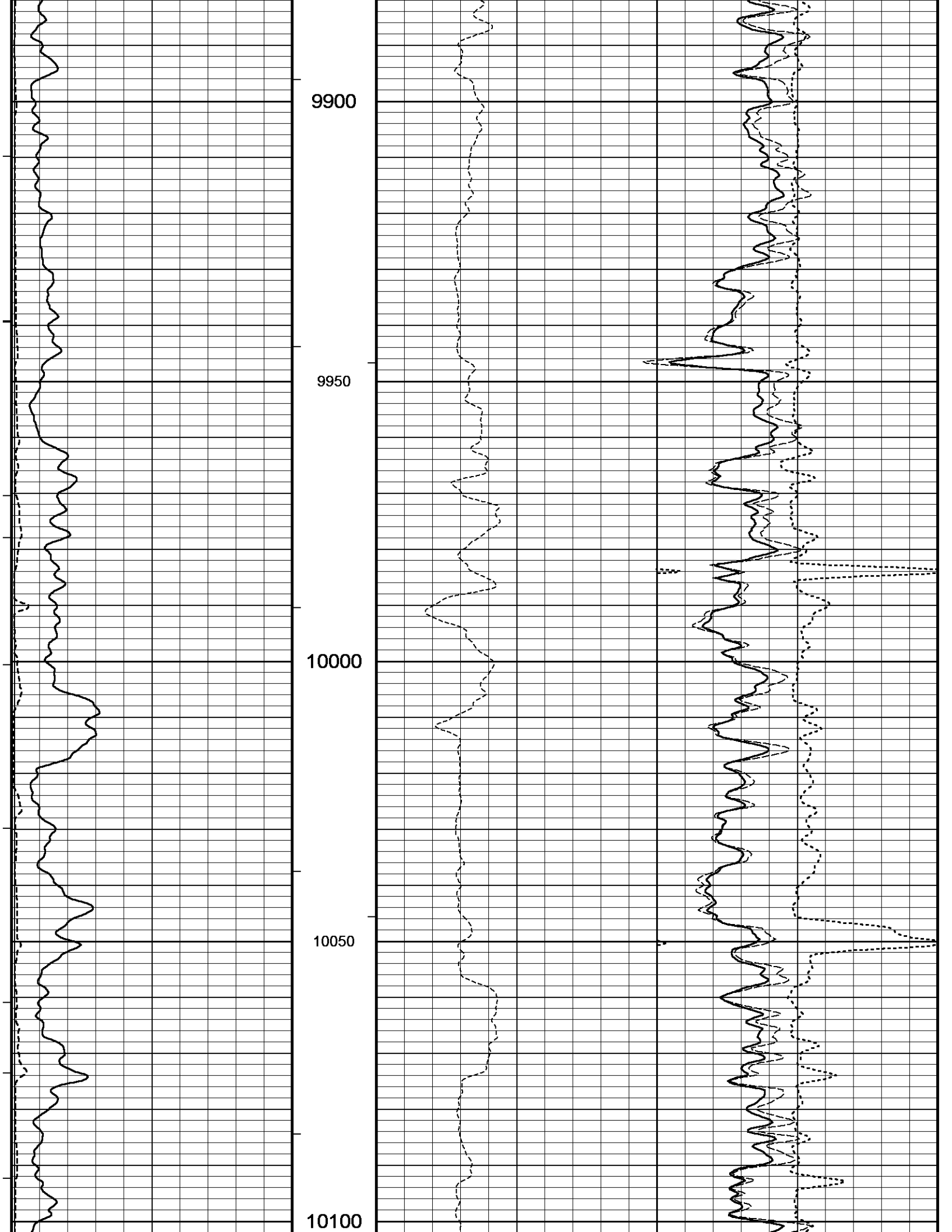


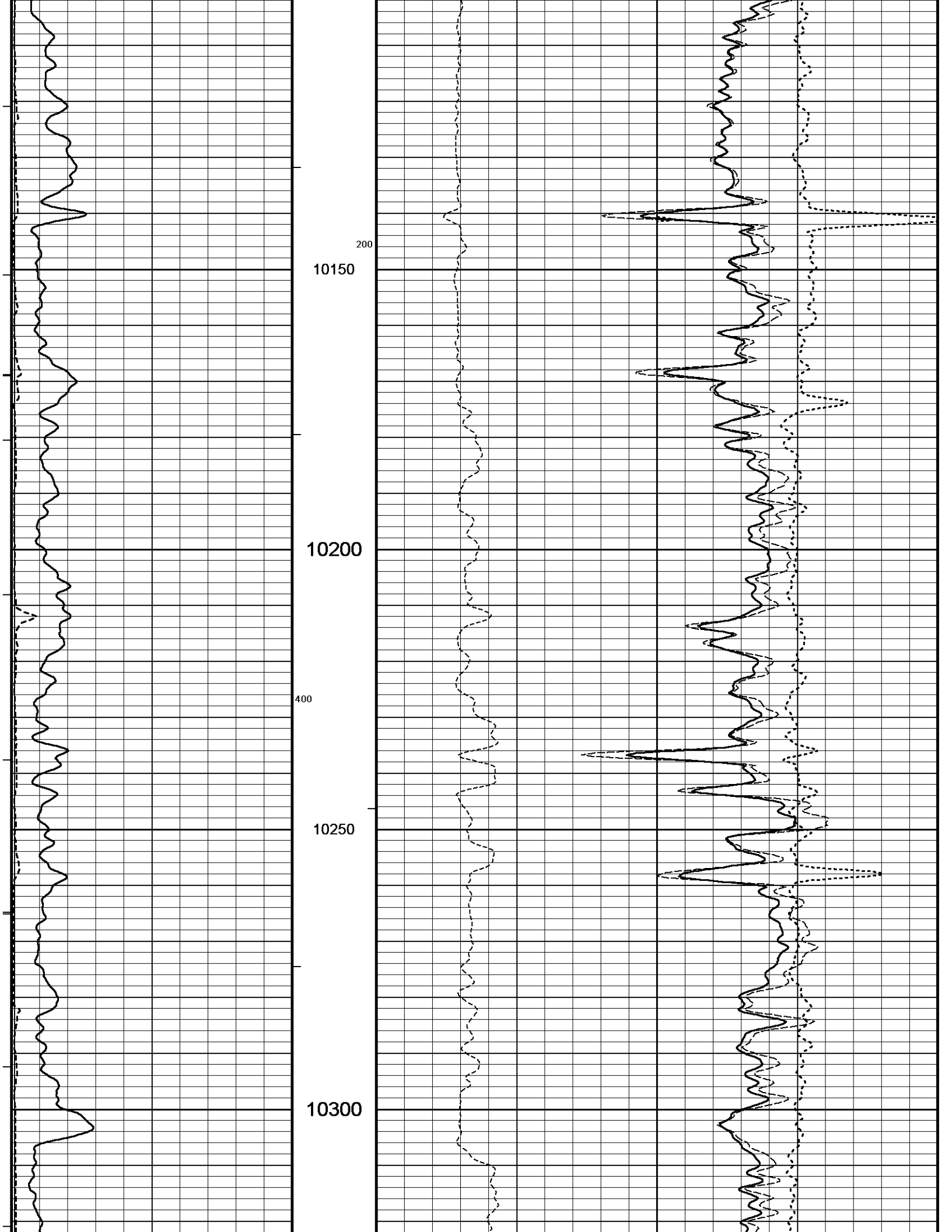


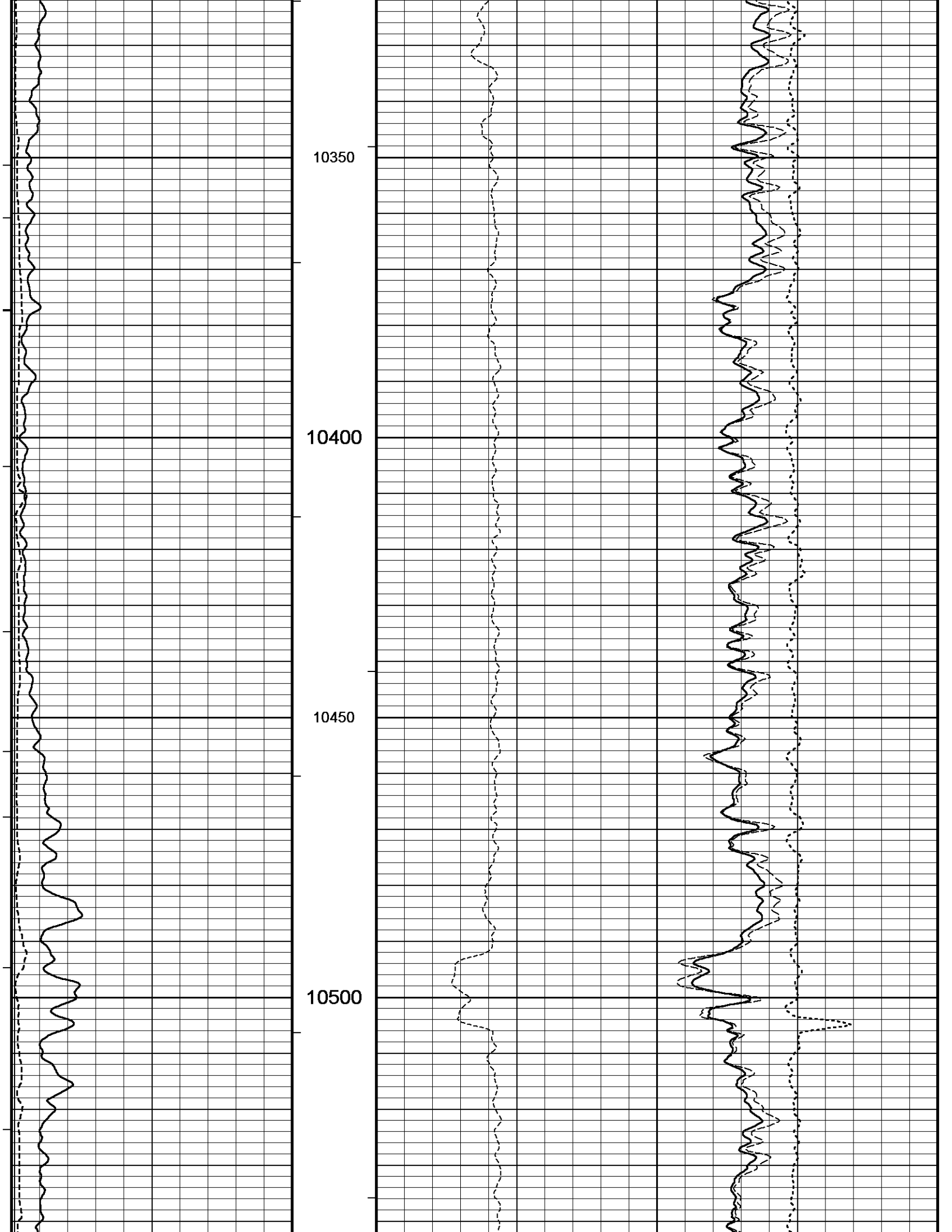


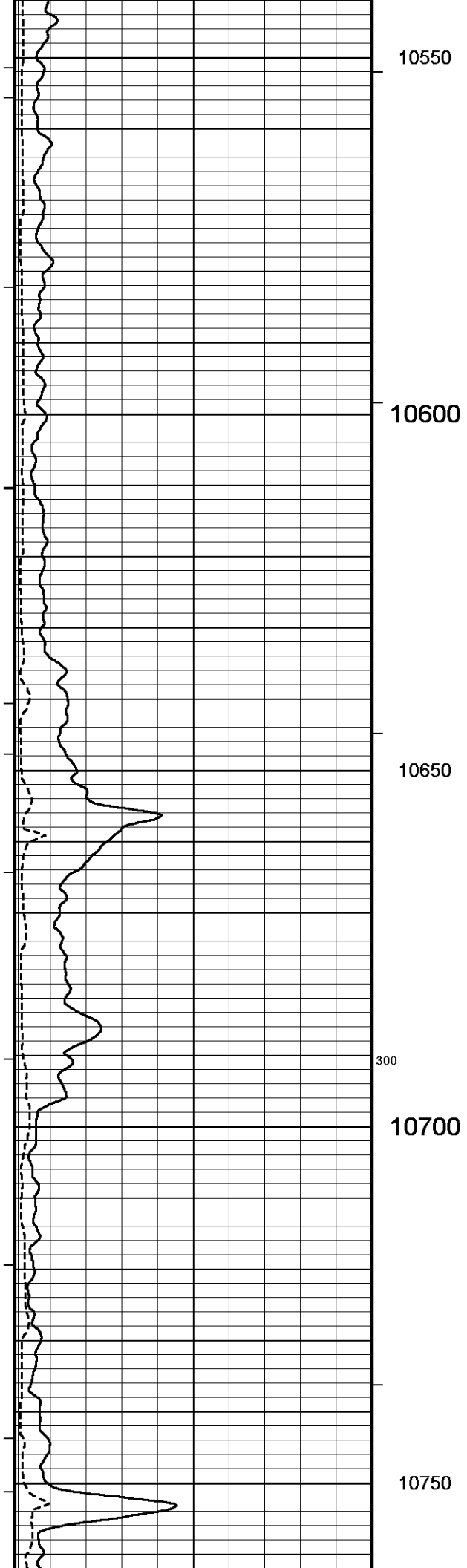
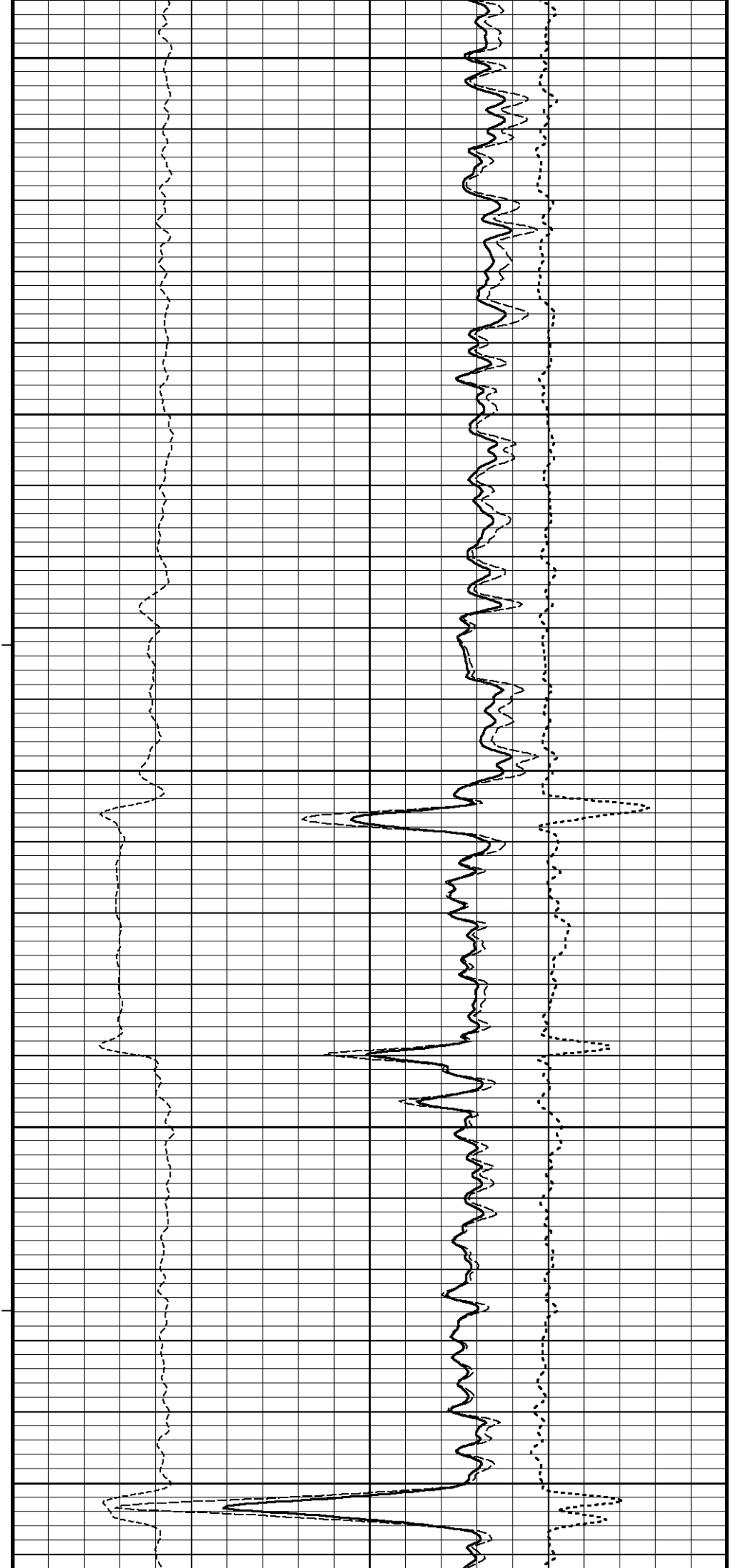
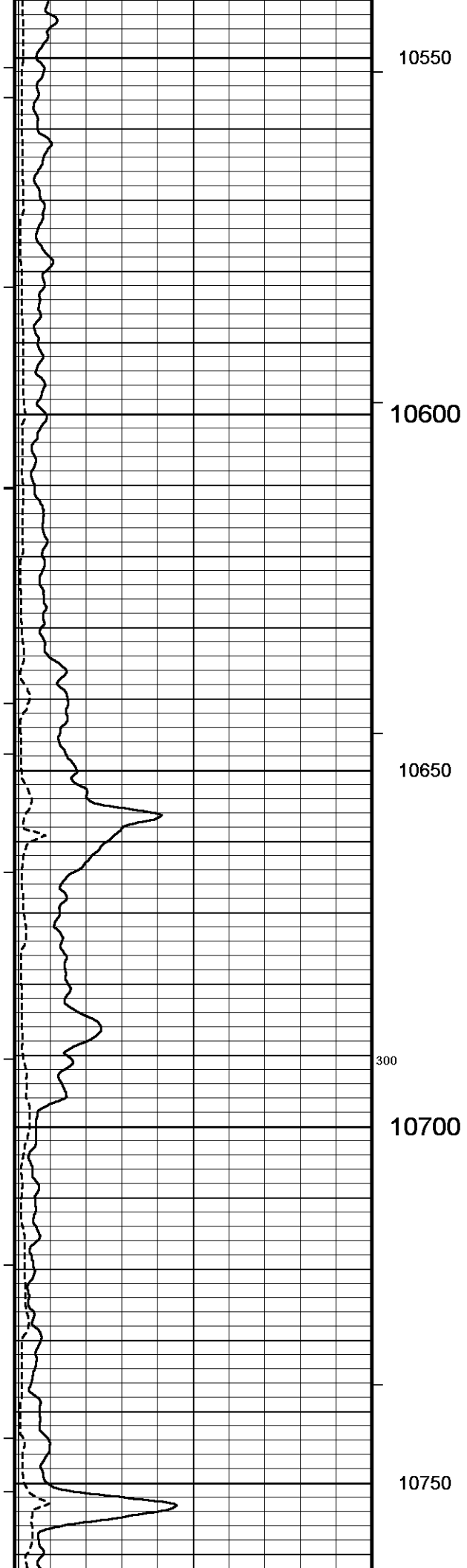


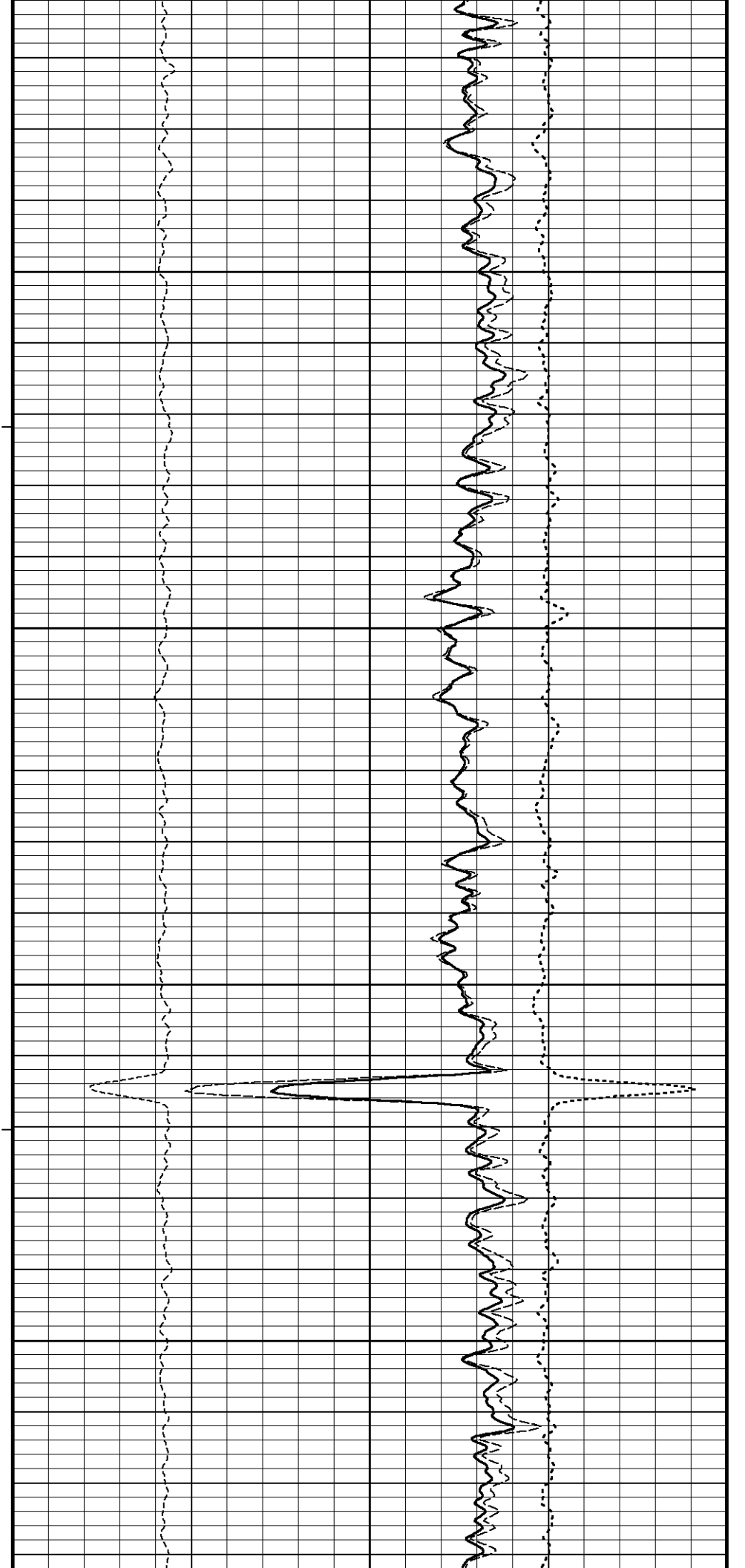
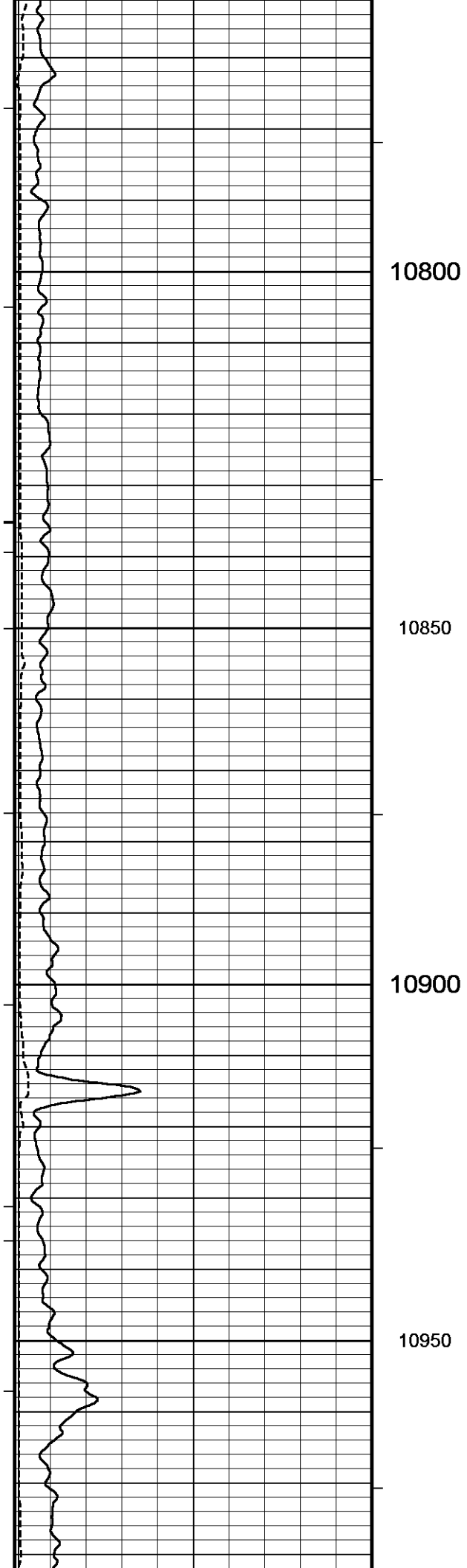


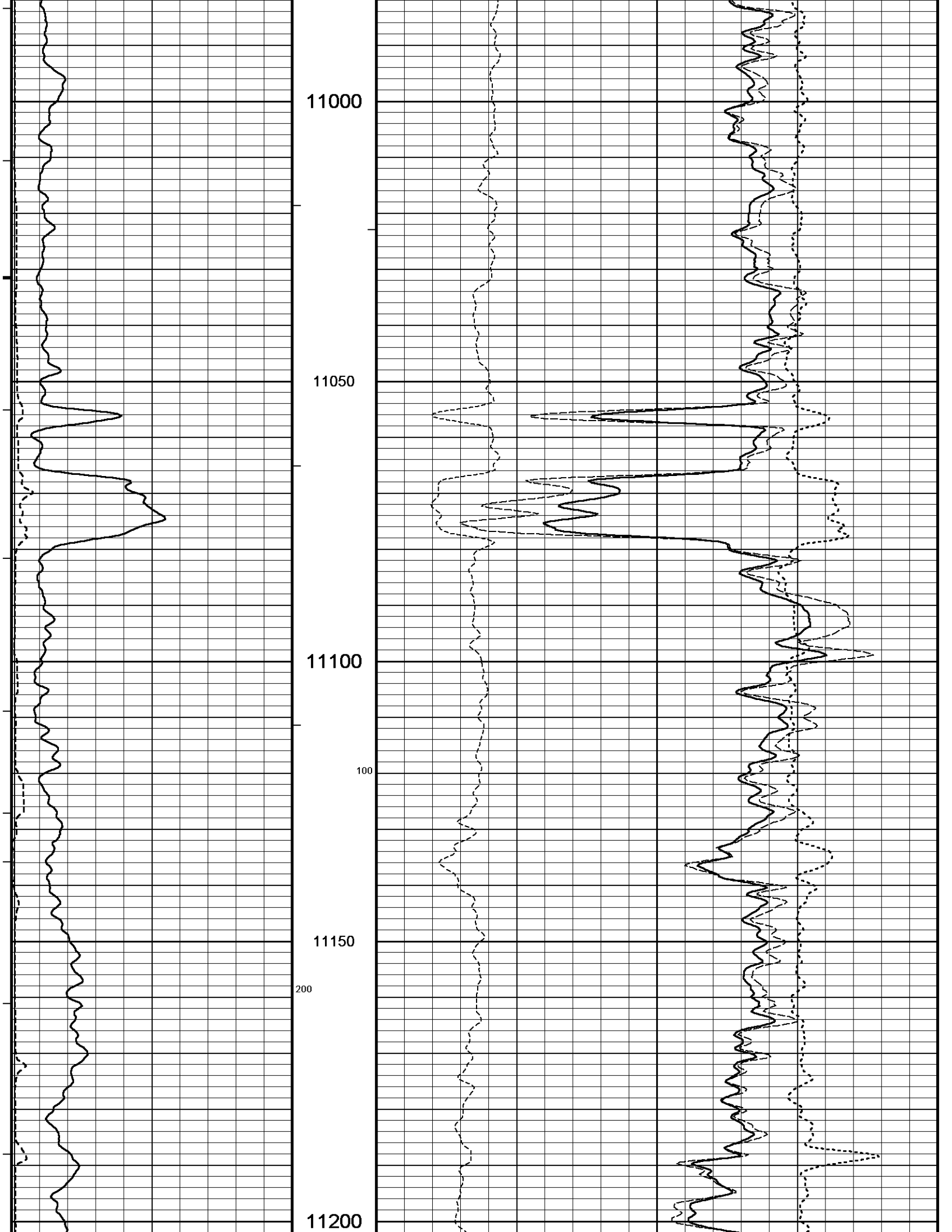


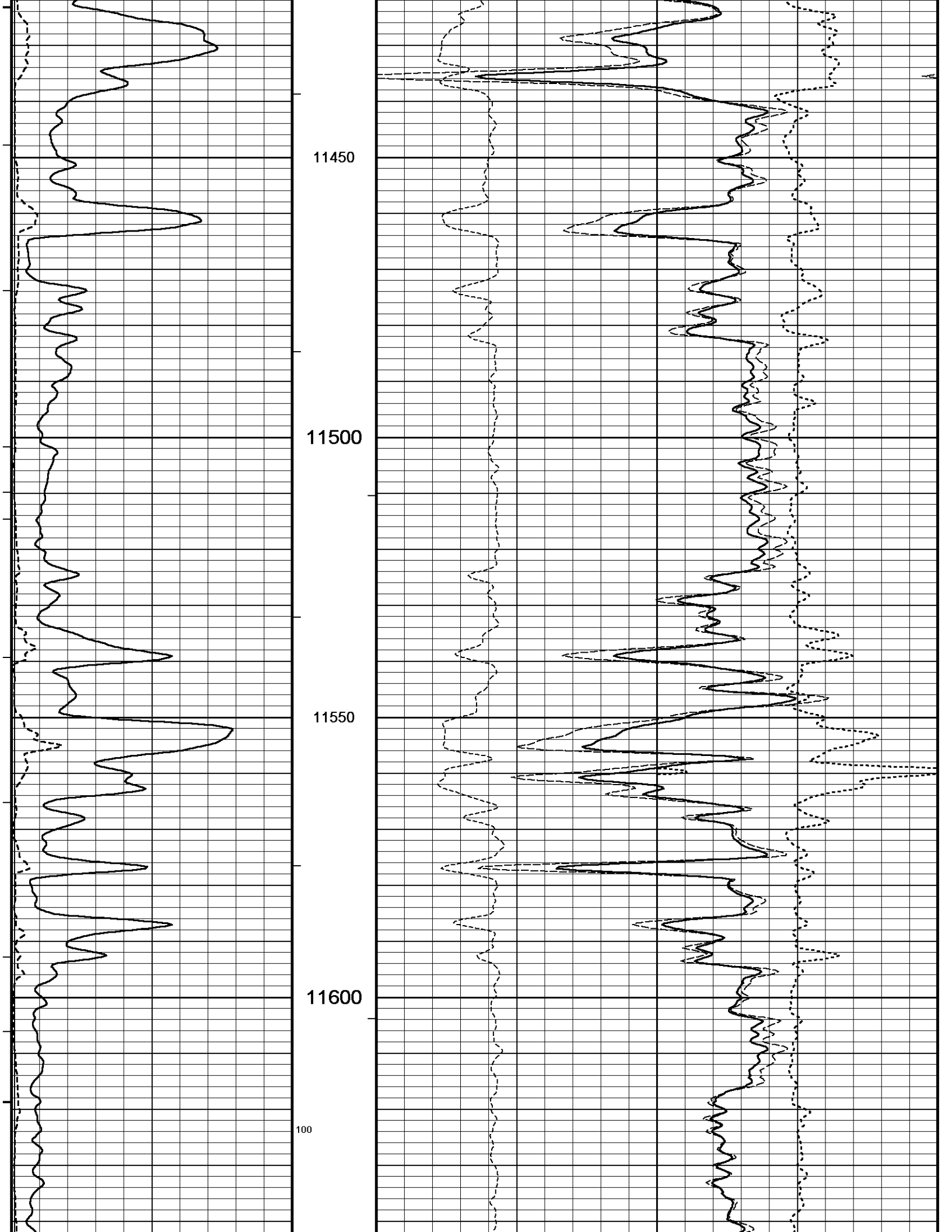


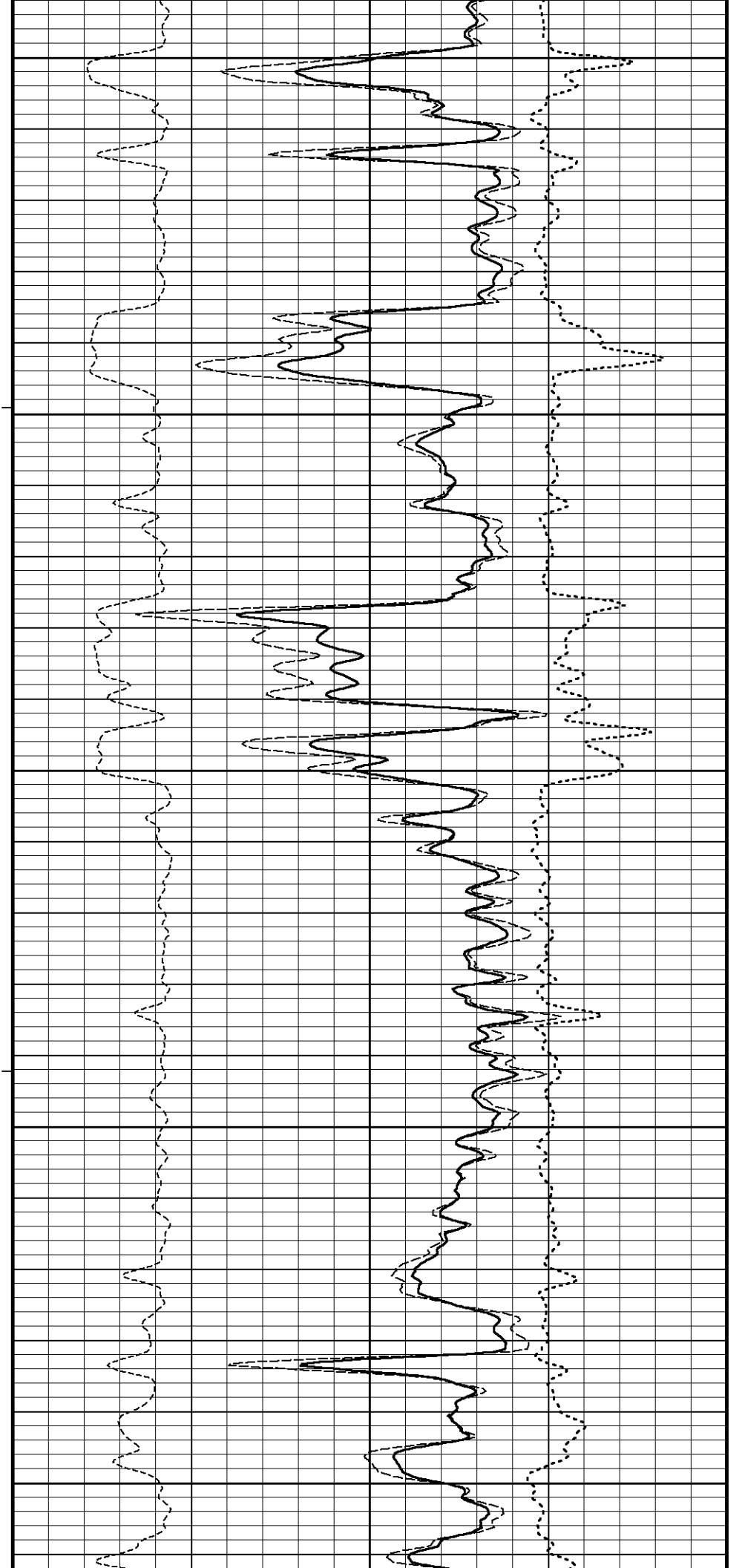
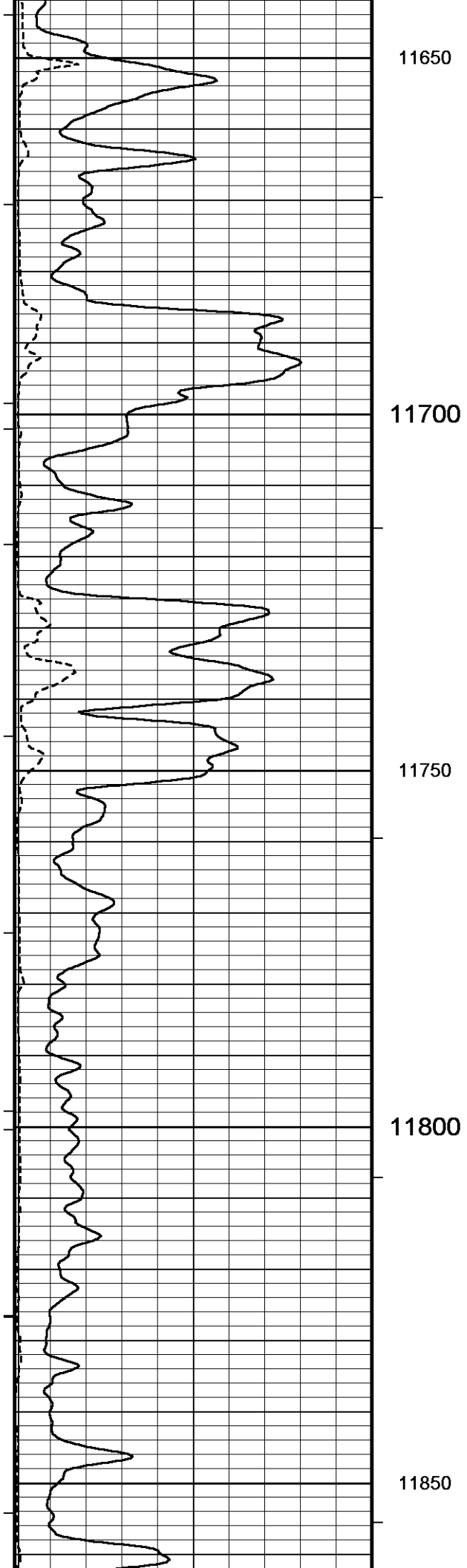


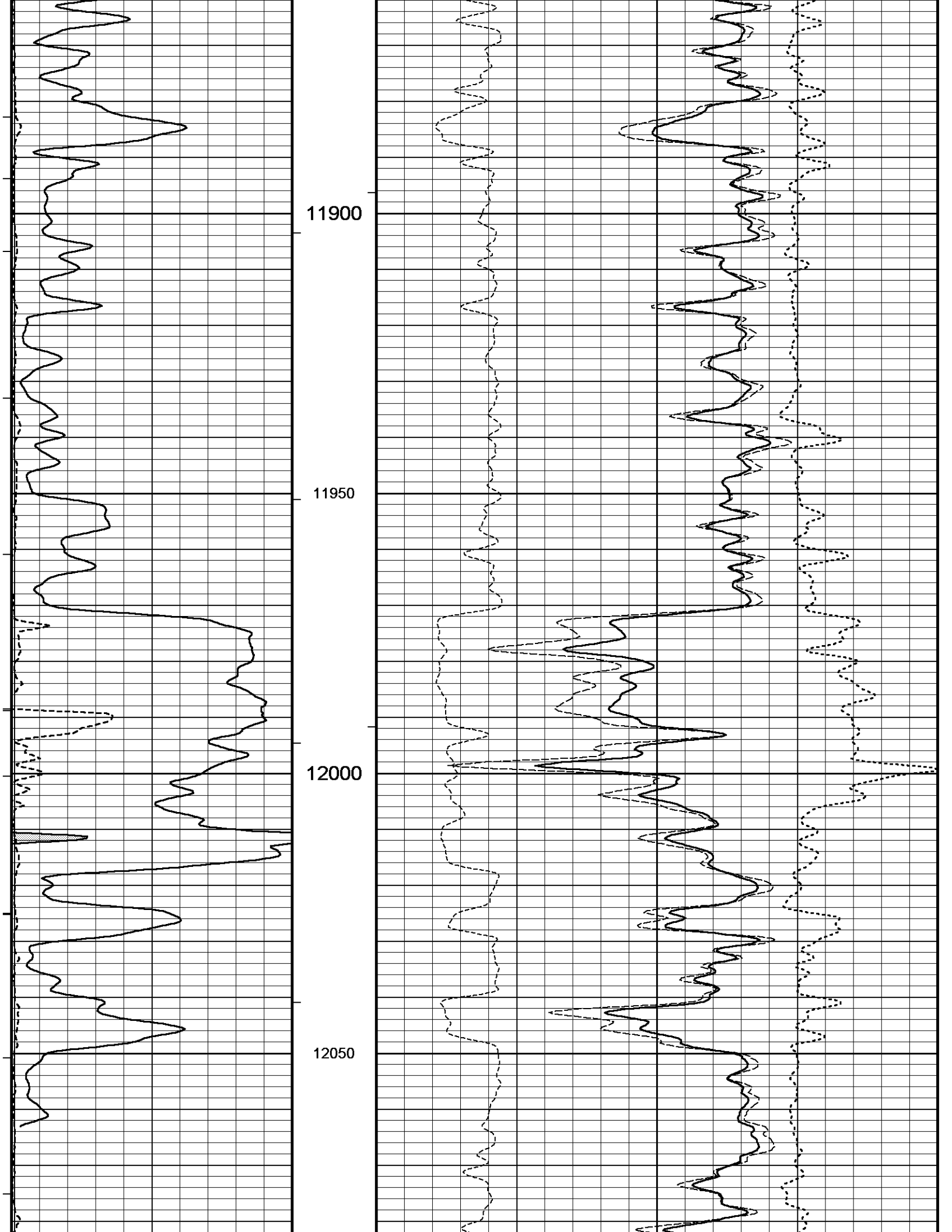


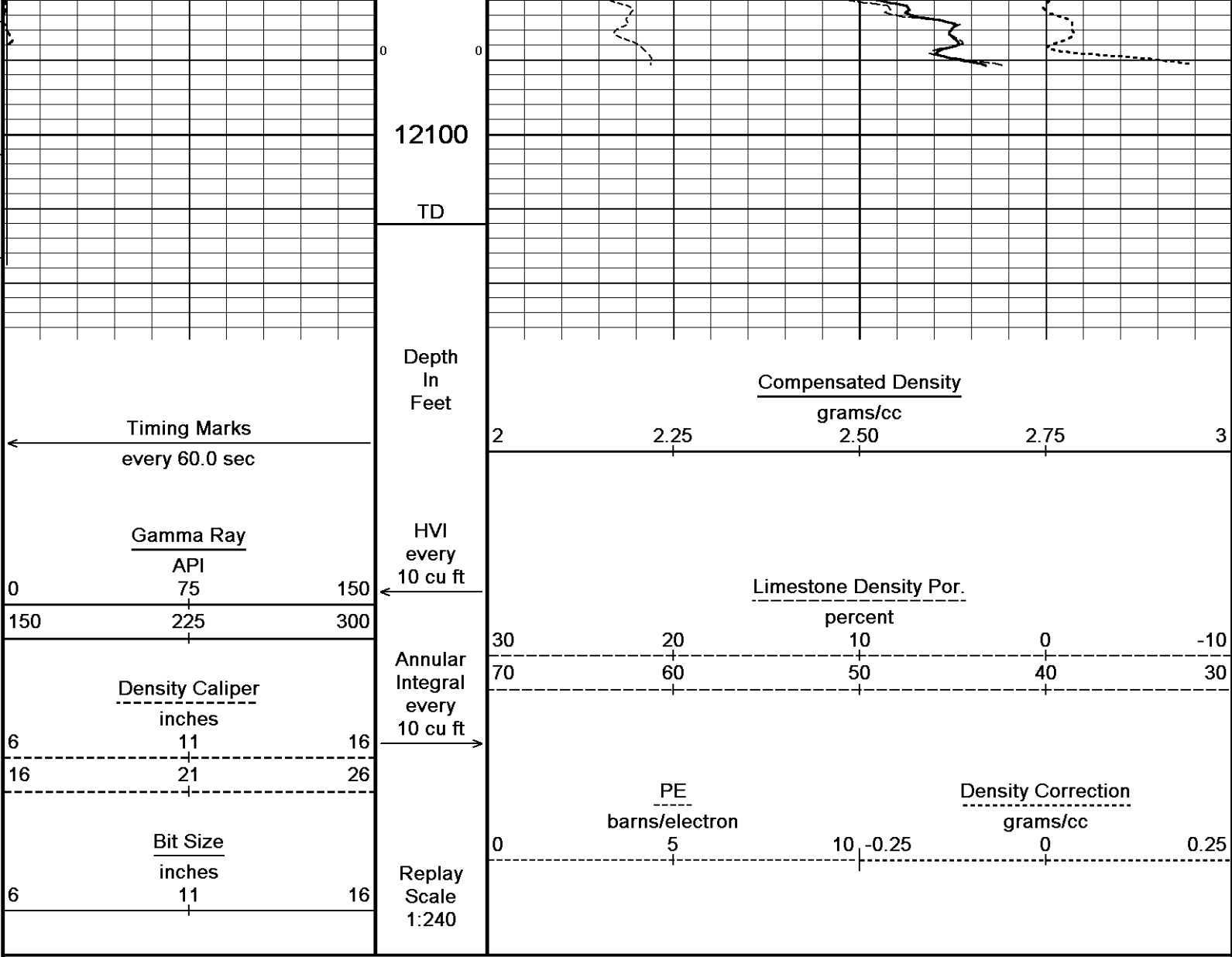












Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-APR-2011 02:27
 Filename: C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\36340.dta Recorded on 14-APR-2011 01:01
 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186

↑ **5 INCH BULK DENSITY** ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\TOOLSTRING.dta

General Constants All 000 Last Edited on 12-APR-2011,23:16

General Parameters
 Mud Resistivity 2.000 ohm-metres
 Mud Resistivity Temperature 60.000 degrees F
 Water Level 0.000 feet
 Density/Neutron Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters
 HVOL Method Single Caliper
 HVOL Caliper 1 Density Caliper
 HVOL Caliper 2 N/A
 Annular Volume Diameter 4.500 inches
 Caliper for Differential Caliper Density Caliper

Rwa Parameters
 Porosity used Limestone Density Por.
 Resistivity used Array Ind. Four Res Rt
 RWA Constant A 0.610

Down-hole Tension Calibration SMS 0

Field Calibration on 07-FEB-2006 14:19

Reading No	Measured	Calibrated (lbs)
1	16292.42	0.00
2	17072.79	420.00

Gamma Calibration MCG-D.A 328

Field Calibration on 12-APR-2011,23:14

	Measured	Calibrated (API)
Background	42	29
Calibrator (Gross)	1361	926
Calibrator (Net)	1319	897

Gamma Constants MCG-D.A 328

Last Edited on 12-APR-2011,23:14

Gamma Calibrator Number	056	
Mud Density	1.01	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG-D.A 328

Field Calibration on 07-APR-2011,14:20

	Measured	Calibrated (mV)
Reference 1	-100.0	-100.0
Reference 2	100.0	100.0

High Resolution Temperature Calibration MCG-D.A 328

Field Calibration on 07-APR-2011,14:20

	Measured	Calibrated(Deg F)
Lower	500.00	50.00
Upper	150.00	150.00

High Resolution Temperature Constants MCG-D.A 328

Last Edited on

Pre-filter Length	11
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Gamma Calibration MGS-C.J 108

Field Calibration on 12-APR-2011,23:14

	Measured	Calibrated (API)
Background	41	28
Calibrator (Gross)	1372	925
Calibrator (Net)	1331	897

Gamma Constants MGS-C.J 108

Last Edited on 12-APR-2011,23:14

Gamma Calibrator Number	056	
Mud Density	1.01	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Constants MGS-C.J 108

Last Edited on

Pre-filter Length	11
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Neutron Calibration MDN-A.B 165

Base Calibration on 18-JAN-2011 09:45

Field Check on 12-APR-2011,23:35

Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	2962	92	3714	110
	32.226		33.764	

Field Calibrator at Base

Calibrated (cps)	
1292	1857
0.696	

Field Check

Calibrated (cps)	
1294	1854
0.698	

Neutron Constants MDN-A.B 165

Last Edited on 12-APR-2011,23:34

Neutron Source Id	p31112b	
Neutron Jig Number	5917ne	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.14	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	0.00	kpsi
Temperature Source	MGS External Temperature	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	0.00	kppm
Barite Mud Correction	Not Applied	

Induction Calibration MAI-B.J 392

Base Calibration on 07-MAR-2011,14:45
Field Check on 12-APR-2011 23:32

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	17.1	467.1	9.3	966.2
2	6.1	375.5	7.6	821.4
3	3.2	259.2	5.2	566.0
4	2.2	129.4	2.6	279.2

Array Temperature 74.7 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	13.0	3890.3
2	0.0	0.0	30.8	3591.7
3	0.0	0.0	29.2	3050.5
4	0.0	0.0	19.5	2141.0
Deep	0.0	0.0	17.4	2000.9
Medium	0.0	0.0	43.2	3975.1
Shallow	0.0	0.0	46.6	5307.3

Array Temperature 0.0 67.1 Deg F

Induction Constants MAI-B.J 392

Last Edited on 12-APR-2011,23:33

Induction Model	RtAP-WBM	
Caliper for Borehole Corr.	Density Caliper	
Hole Size for Borehole Correction	N/A	inches
Tool Centred	No	
Stand-off Type	Fins	
Stand-off	0.50	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Angle	60.00	degrees
Stand-off Fin Width	0.5000	inches
Borehole Corr. Rm Source	Temperature Corr	
Temp. for Rm Corr.	MGS External Temperature	
Squasher Start	0.0020	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre

Channel 4

0.00

mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-B.J 392

Field Calibration on 27-SEP-2010,09:40

	Measured	Calibrated(Deg C)
Lower	10.00	10.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-B.J 392

Last Edited on

Pre-filter Length	11
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Caliper Calibration MPD-B 166

Base Calibration on 04-FEB-2011,04:24

Field Calibration on 12-APR-2011,23:37

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	13324	4.01
2	22796	5.96
3	32616	7.98
4	42176	9.86
5	52894	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
6.08	6.00

Photo Density Calibration MPD-B 166

Base Calibration on 31-MAR-2011,23:58

Field Check on 12-APR-2011 23:24

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	48644	24559	59869	31110
Reference 2	20824	2451	24557	2522

Field Check at Base

1194.7	1301.1
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Field Check

1188.8	1292.2
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PE Calibration

Base Calibration	WS	Measured		Calibrated
		WH	Ratio	Ratio
Background	219	1062		
Reference 1	18351	48453	0.383	0.369
Reference 2	5790	20687	0.284	0.271

Field Check at Base

218.6	1061.9
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Field Check

215.7	1058.8
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Density Constants MPD-B 166

Last Edited on 12-APR-2011,23:15

Density Source Id

Nylon Calibrator Number

Aluminium Calibrator Number

Density Shoe Profile 4 inch

Caliper Source for Processing Density Caliper

PE Correction to Density Not Applied

Mud Density 1.01 gm/cc

Mud Density	1.01	gm/cc
Mud Density Z/A Multiplier	1.10	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Advanced	

Matrix Density (gm/cc)	Depth (ft)
2.71	
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:\Minimus\Data\SDRGE (Kerstetter 1-25H)\36340.dta

Shuttle Mechanical Release (SMR A)
SMR-A 146 LG: 8.53 ft WT: 77.2 lb OD: 2.52 in

Shuttle Electrical Release
SER-A 146 LG: 6.90 ft WT: 50.7 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub
MBS-G.A 113 LG: 16.66 ft WT: 132.3 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 134 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 108 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

Compact Collar Locator
MCL-B.J 60 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 476 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 442 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 593 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
MDN-A.B 165 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 166 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 591 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 438 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.A Compact Knuckle Joint
SKJ-E.A 477 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub



53.57 ft GRGM - MGS Gamma Ray
51.58 ft GSXT - MGS External Temperature
49.60 ft GCSL - MCL C. Collar Locator
34.70 ft NPRL - Limestone Neutron Por.
27.46 ft AVOL - Annular Volume
27.46 ft HVOL - Hole Volume
27.46 ft CLDC - Density Caliper
25.53 ft DPRL - Limestone Density Por.
25.53 ft DEN - Compensated Density
25.53 ft DCOR - Density Correction
25.47 ft PDPE - PE

MIS-E.B Compact inline Standoff sub
 MIS-E.B 577 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
 MAI-B.J 392 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in


Total Length: 93.49 ft Weight: 712.1 lb




- 3.34 ft CTAF - Array Ind. Four Cond Ct
 - 3.34 ft R40F - Array Ind. Four Res 40
 - 3.34 ft R30F - Array Ind. Four Res 30
 - 3.34 ft R20F - Array Ind. Four Res 20
 - 3.34 ft R60F - Array Ind. Four Res 60
 - 3.34 ft R85F - Array Ind. Four Res 85
 - 3.34 ft RTAF - Array Ind. Four Res Rt
 - Tool Zero (1.84ft from bottom)
- All measurements relative to tool zero.

COMPANY	SANDRIDGE ENERGY
WELL	KERSTETTER 1-25H
FIELD	SIX MOONS
PROVINCE/COUNTY	COMANCHE
COUNTRY/STATE	USA / KANSAS

Elevation Kelly Bushing	2020.00	feet	First Reading	12087.50	feet
Elevation Drill Floor	2018.00	feet	Depth Driller	12129.00	feet
Elevation Ground Level	2000.00	feet	Depth Logger	12112.00	feet



COMPACT WELL SHUTTLE
 COMPACT PHOTO DENSITY
 COMPENSATED NEUTRON LOG



Final TD Notice

April 14, 2011

Kerstetter #1-25H, Section 25-T31S-R20W, Comanche County, KS

API #1503321581-01-00

SL: 330' FSL& 660' FWL of SW/4
BHL: 330' FNL & 660' FWL of NW/4

Spud 3/22/11; Rig –Lariat 45/Drilling Engineer –Richard Hill
TMD reached @ 1:15 am, 4/12/11, TMD Driller @ 12,129' MD/5,075' TVD

Vertical E-logs –Gamma Ray only, MWD –Drill Right
Horizontal E-Logs received @ 5:15 am, 4/14/11, TMD Logger @ 12,112' MD –Weatherford
Mudlogging by Ed Berglund and Bud Walker

Datum 2,021' KB	E-LOG TOPS Gamma Ray only		MUD LOG TOPS Horizon Mudlogging	
	MD/TVD	SUBSEA	MD/TVD	SUBSEA
FORMATION				
Base Anhydrite	NDA	NDA	2498'	-477'
Base Heebner	4174'	-2153'	4172'	-2151'
Lansing Ls/Shale Group	4358'	-2337'	4357'	-2336'
Cherokee Group	5005'/4962'	-2941'	5009'/4964'	-2943'
Mississippi Lime	5165'/5061'	-3040'	5178'/5069'	-3048'

Mud Log –Throughout the lateral, the well path was in a Mississippian-aged white to off-white limestone with varying amounts of white, angular cherts (traces to 10%). Scattered yellow fluorescence, occasional milky white cut and residual ring with formation and connection gas shows of 0-100 units throughout the wellbore were noted. To be completed in the Mississippian section of rocks.

Feel free to call with questions/comments.

Best,

Kathy Gentry, Senior Geologist
Tammy Alcorn, Geologist

AMENDED

PAGE 1 OF 1

ATTACHMENT TO FORM ACO18

SandRidge E&P, LLC

Kerstetter #1-25H (1052696)

API 15-033-21581-01-11

Comanche County, Kansas

Sec 25, T31S, R20W

C. Distance to nearest pipeline or gathering facility is 7 miles.

1. Wireline logs are attached.
2. Form ACO-1 is attached but missing data—this well is not yet completed. The report will be filed within KCC guidelines upon completion of the well which is anticipated to be around 5/2/2011.
3. Method of measuring flared gas: We will have a test meter on the flare. We will meter and record all volumes, including liquids and gas which are produced by this well. There will be contract flow testing personnel on location 24/7 until all utilities, equipment and safety mechanisms are in place. The flow hand will complete the attached report to closely monitor and record all pressures, rates, and volumes .
4. This is a new drill and we are still trying to evaluate and determine whether the well is capable of producing in economic quantities. In order to make that determination we need to produce the well to evaluate the production capabilities. The closest gas sales line is 7 miles away; therefore, we will need to temporarily flare to determine economic quantities. Our anticipated completion date is May 2, 2011, and we will need to begin flaring upon completion to gather sufficient data to make that determination.
5. A copy of the text submitted for publication is attached.

**THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS**

IN THE MATTER OF THE REQUEST)	
OF SANDRIDGE EXPLORATION &)	
PRODUCTION, LLC FOR)	
PERMISSION TO FLARE NATURAL GAS)	KCC License No. 34192
PURSUANT TO K.A.R. § 82-3-314(b))	Conservation Division
_____)	

**NOTICE OF PENDING REQUEST FOR
PERMISSION TO FLARE NATURAL GAS**

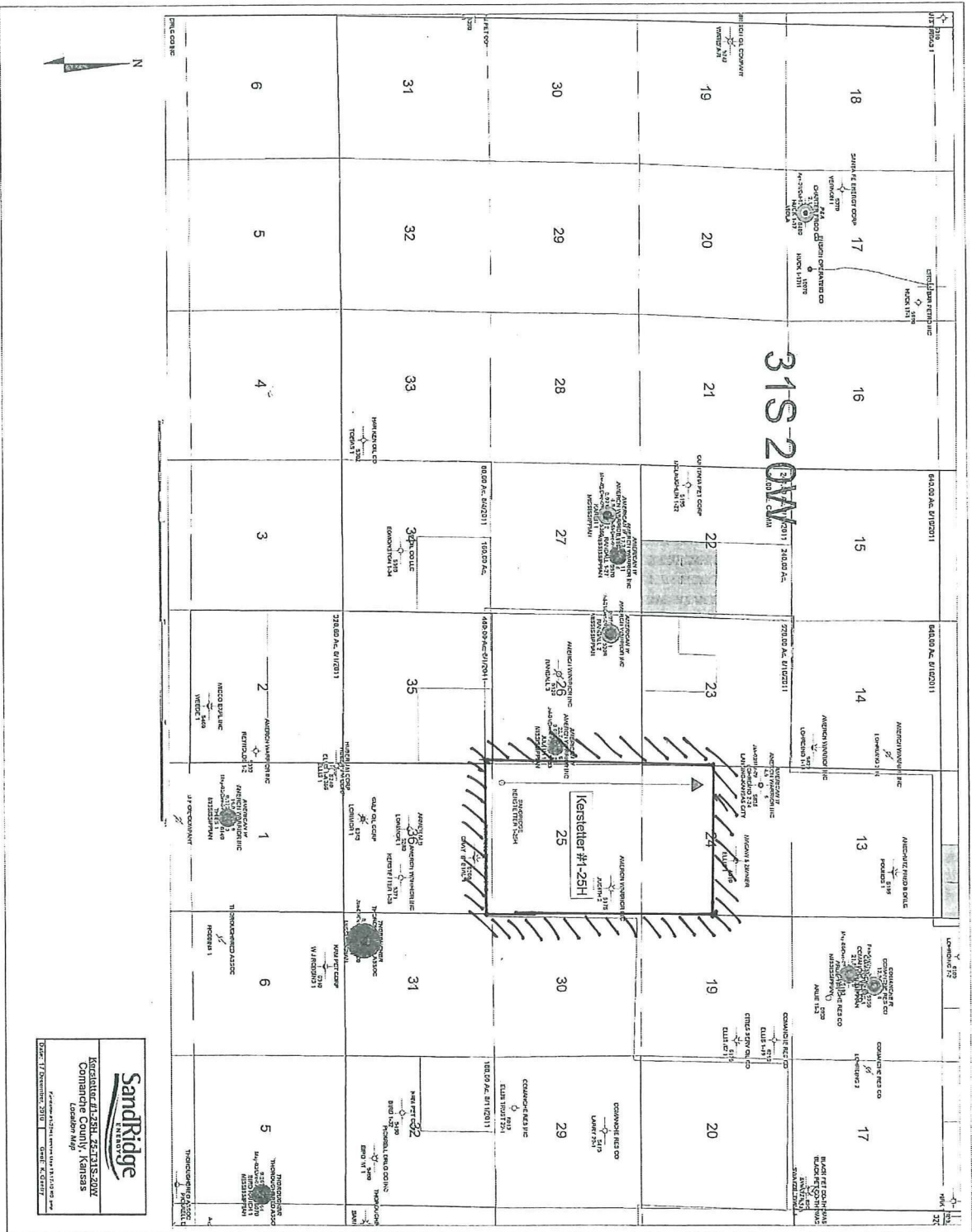
TO: ALL OIL AND GAS PRODUCERS, UNLEASED MINERAL INTEREST OWNERS, LANDOWNERS, AND ALL PERSONS WHOMSOEVER CONCERNED.

You, and each of you, are hereby notified that SANDRIDGE EXPLORATION & PRODUCTION, LLC has filed an Application for Venting or Flaring of Gas Other than Casinghead Gas and an Affidavit for Venting of Natural Gas with the State Corporation Commission of the State of Kansas (the "Commission") seeking permission to flare natural gas, pursuant to K.A.R. § 82-3-314, from the following well located in Comanche County, Kansas:

Kerstetter #1-25H well
API #15-033-21581-01-00
Surface Location: 330' FSL & 660' FWL of Section 25-31S-20W

The Commission may approve SANDRIDGE EXPLORATION & PRODUCTION, LLC's request to flare natural gas without a hearing. Any persons who object to or protest the request to flare natural gas from that well should file their objections or protests with the Commission within fifteen (15) days from the date of this publication. If any protests are timely filed, a hearing may be held on the 16th day of June, 2011, at 10:00 a.m. at the Kansas Corporation Commission, 130 South Market, Room 2078, Wichita, Kansas 67202. All parties in any way interested or concerned shall take notice of the foregoing and govern themselves accordingly.

David E. Bengtson (#12184)
STINSON MORRISON HECKER LLP
1625 N. Waterfront Pkwy., Suite 300
Wichita, Kansas 67206-6620
(316) 265-8800
Fax: (316) 265-1349
Attorneys for SandRidge Exploration &
Production, LLC





Kersterlet #1-25H 31S-20WV

 City of Denver, Colorado

Date: 12 November 2018

KANSAS CORPORATION COMMISSION
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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2: _____
City: OKLAHOMA CITY State: OK Zip: 73102 6406
Contact Person: Karen Sharp
Phone: (405) 429-5745
CONTRACTOR: License # 34464
Name: Lariat Services, Inc.
Wellsite Geologist: Kathy Gentry
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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 #: _____
08/22/2011 04/15/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-033-21581-01-00
Spot Description: _____
S2 SW SW Sec. 25 Twp. 31 S. R. 20 East West
330 Feet from North / South Line of Section
660 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Comanche
Lease Name: Kerstetter Well #: 1-25H
Field Name: _____
Producing Formation: Mississippi
Elevation: Ground: 2001 Kelly Bushing: 2022
Total Depth: 0 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 804 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.

Signature: _____

Title: _____ Date: _____

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: _____

Operator Name: SandRidge Exploration and Production LLC Lease Name: Kerstetter Well #: 1-25H
 Sec. 25 Twp. 31 S. R. 20 East West County: Comanche

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Array Induction	5450	GL 2000
Electric Log Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Compact Well Shuttle; Compact Photo Density; CN	5450	GL 2000
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

List All E. Logs Run:

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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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