



**Weatherford**<sup>®</sup>

**CML MESSENGER SHUTTLE  
COMPENSATED PHOTO-DENSITY  
COMPENSATED NEUTRON LOG**

COMPANY **DORADO E&P PARTNERS, LLC.**  
 WELL **PREISSER 25-9-6-1H**  
 FIELD **WILDCAT-MISSISSIPPIAN**  
 PROVINCE/COUNTY **RENO**  
 COUNTRY/STATE **USA / KANSAS**  
 LOCATION **150' FSL & 2080' FWL**  
**SW SE SE SW**

SEC	TWP	RGE	Other Services
6	25S	9W	MAI
API Number	15-155-21595-01		
Permit Number	CMI		
Permanent Datum G.L., Elevation 1721 feet			
Log Measured From KB			
Drilling Measured From K.B.			

Date	12-SEP-2012	Elevations:	KB	1733.00
Run Number	ONE	DF	1733.00	
Depth Driller	8350.00	GL	1721.00	
Depth Logger	8306.00			
First Reading	8248.00			
Last Reading	4426.00			
Casing Driller	4426.00			
Casing Logger	4426.00			
Bit Size	6.125			
Hole Fluid Type	WATER			
Density / Viscosity	8.50 g/c3			
PH / Fluid Loss	9.70			
Sample Source	FLOWLINE			
Rm @ Measured Temp	2.46 @ 77.0			
Rmf @ Measured Temp	1.96 @ 77.0			
Rmc @ Measured Temp	2.88 @ 77.0			
Source Rmf / Rmc	CALC			
Rm @ BHT	1.51 @125.0			
Time Since Circulation	1 HOUR			
Max Recorded Temp	125.00			
Equipment Name	COMPACT			
Equipment / Base	18064			
Recorded By	C. GRIFFIN			
Witnessed By	D. WHEELER			
S.O. #	3536666			

BOREHOLE RECORD			Last Edited: 11-SEP-2012 20:45
Bit Size inches	Depth From feet	Depth To feet	
6.125	4426.00	8350.00	
CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
INTERMED	7.000	0.00	4426.00
			Weight pounds/ft
			26.00

**REMARKS**

WLS SOFTWARE VERSION 13.02 USED.  
 TOOLS RUN ON DRILLPIPE USING COMPACT WELL SHUTTLE DEPLOYMENT TECHNIQUE.

DEPTH MEASURED USING ADVANTAGE RIG DEPTH CORRECTED TO PIPE TALLY

TOOLS DEPLOYED WITH MULE SHOE SITTING AT 8205 FT.  
 AFTER DEPLOYMENT LOGGING TOOL WAS AT 8306 FT.

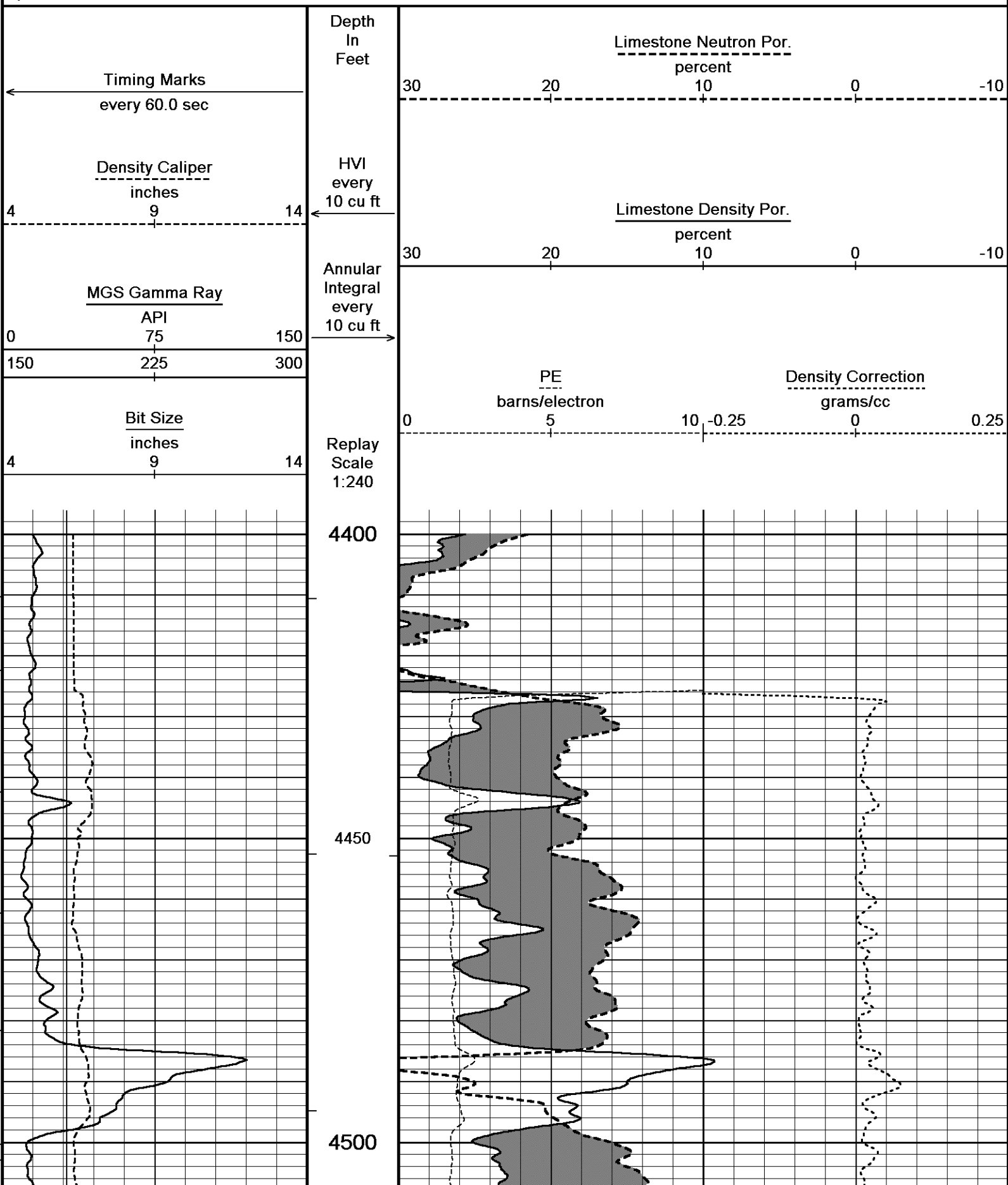
4.5 " PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUMES.

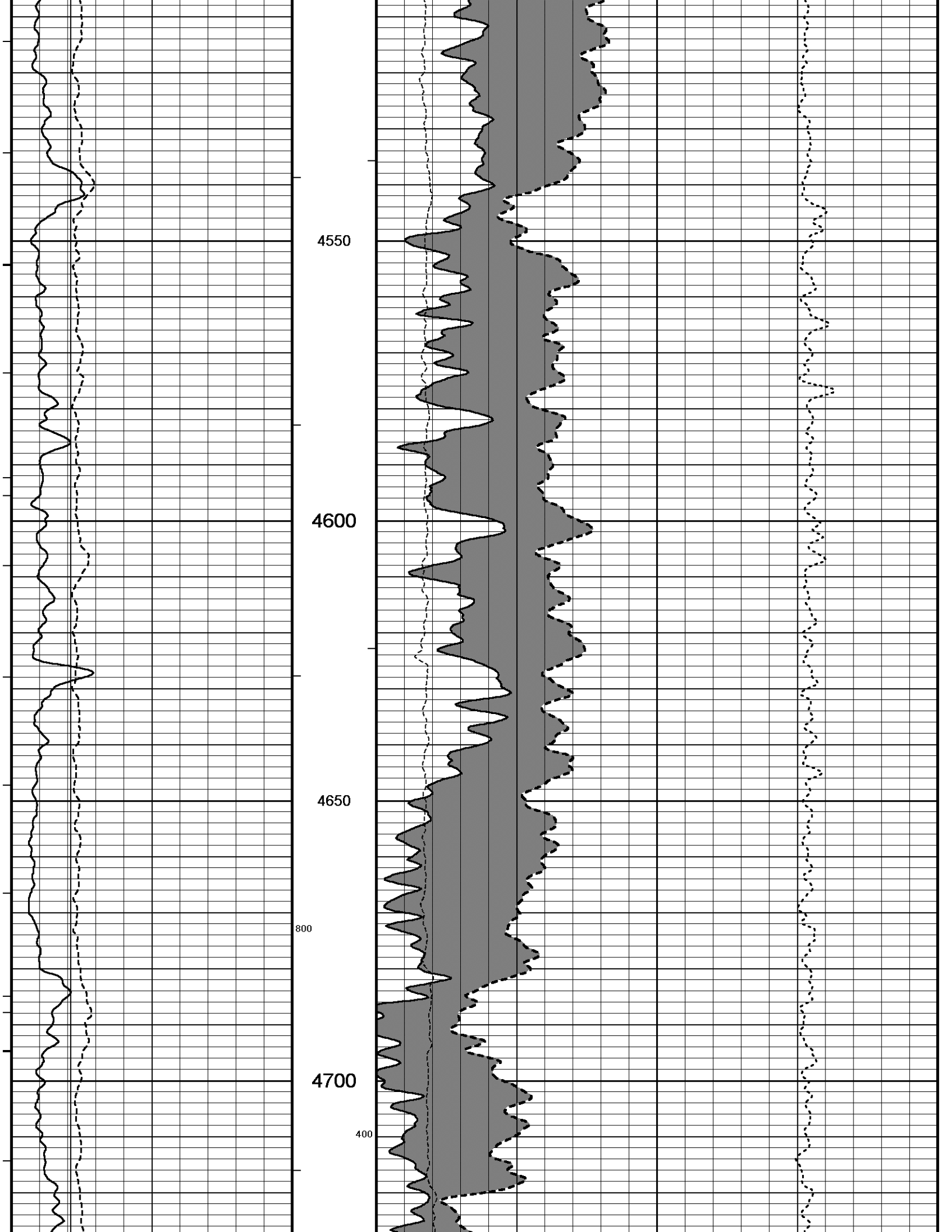
OPERATORS: D. TURNER, C. HAWKINS  
 S.O. # 3536666  
 RIG: DUKE DRILLING 20

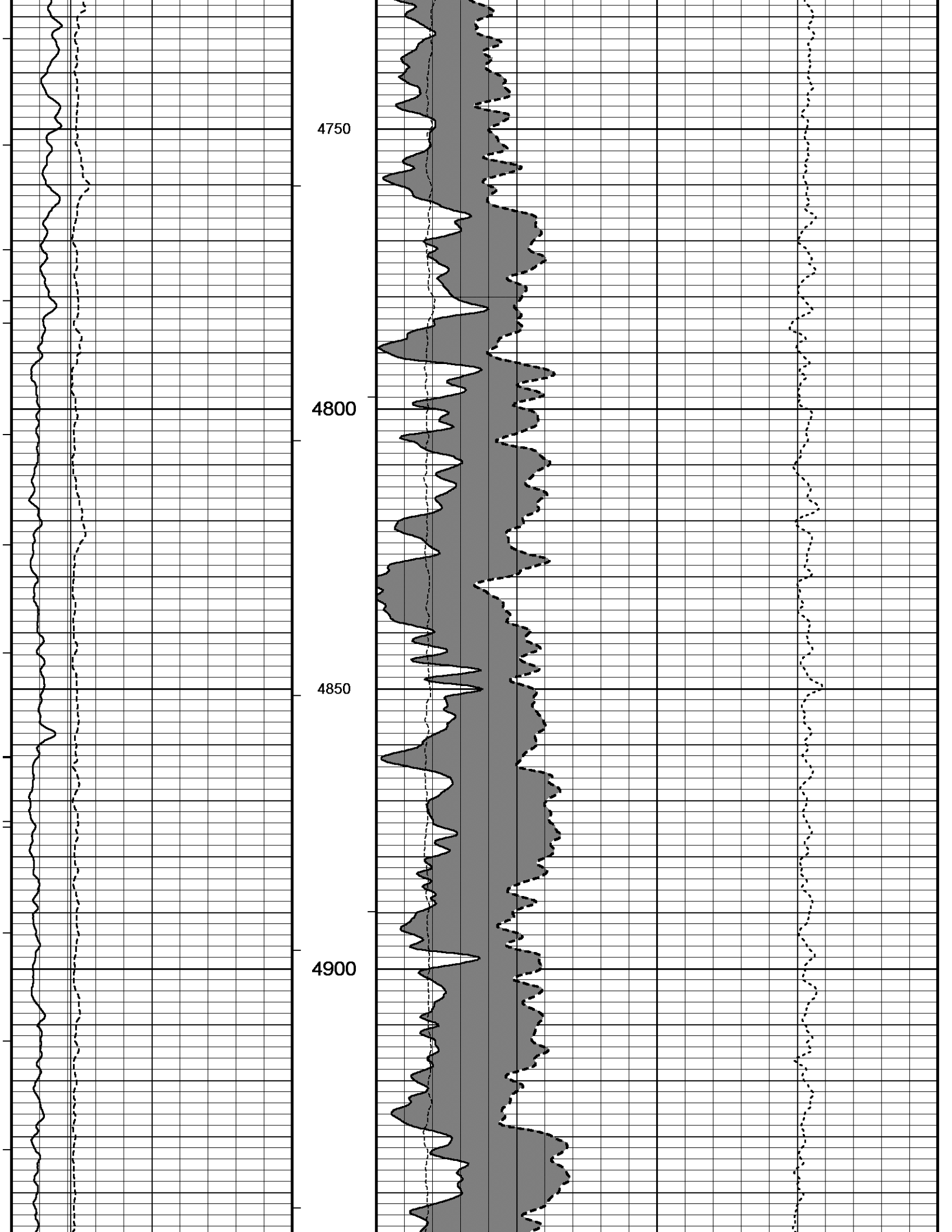
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or

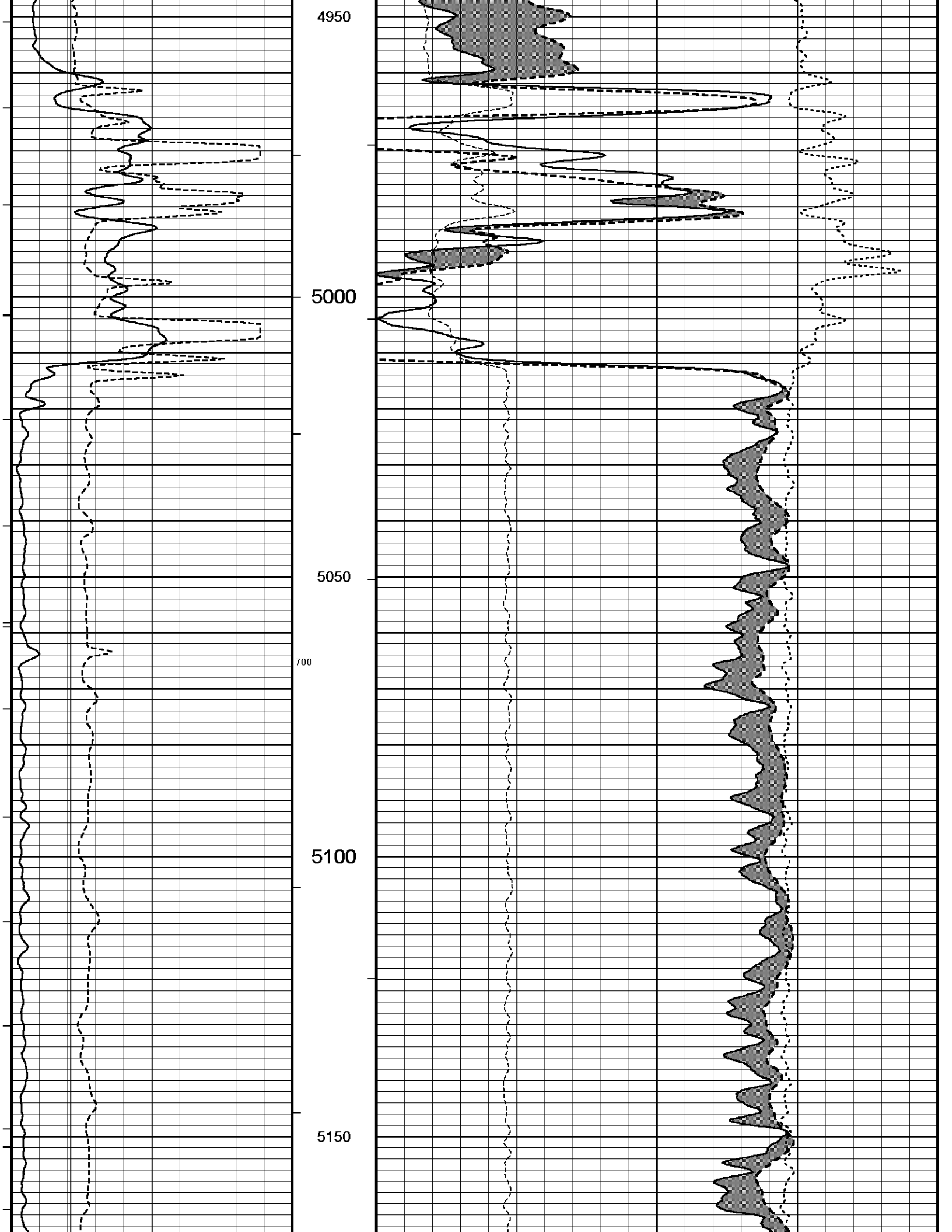
**5 INCH MAIN PASS DSC**

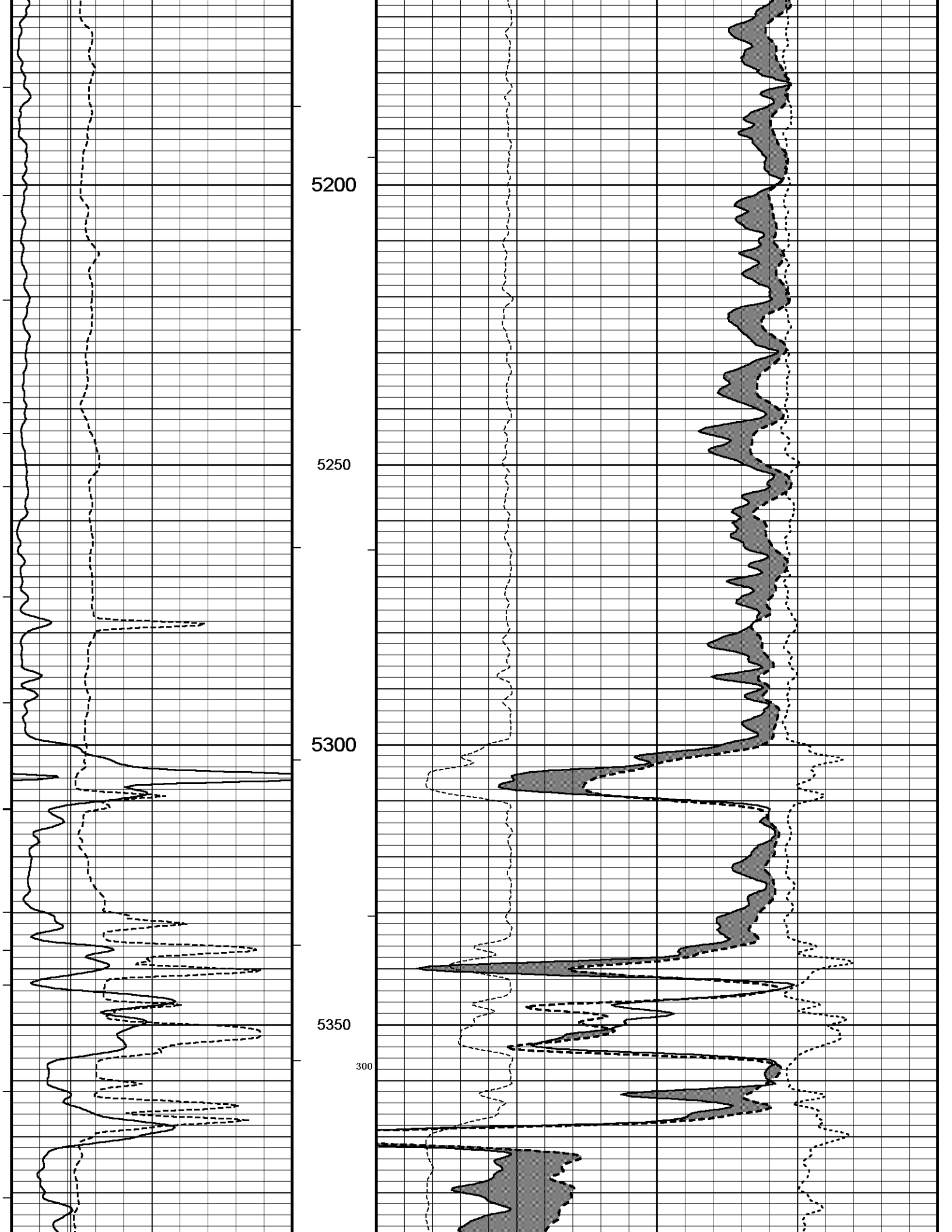
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 12-SEP-2012 18:32  
 Filename: C:\Data\Dorado E & PMMS158 Depthlog TC-CMI.dta Recorded on 12-SEP-2012 17:34  
 System Versions: Processed with 13.02.6600 Plotted with 13.02.6600

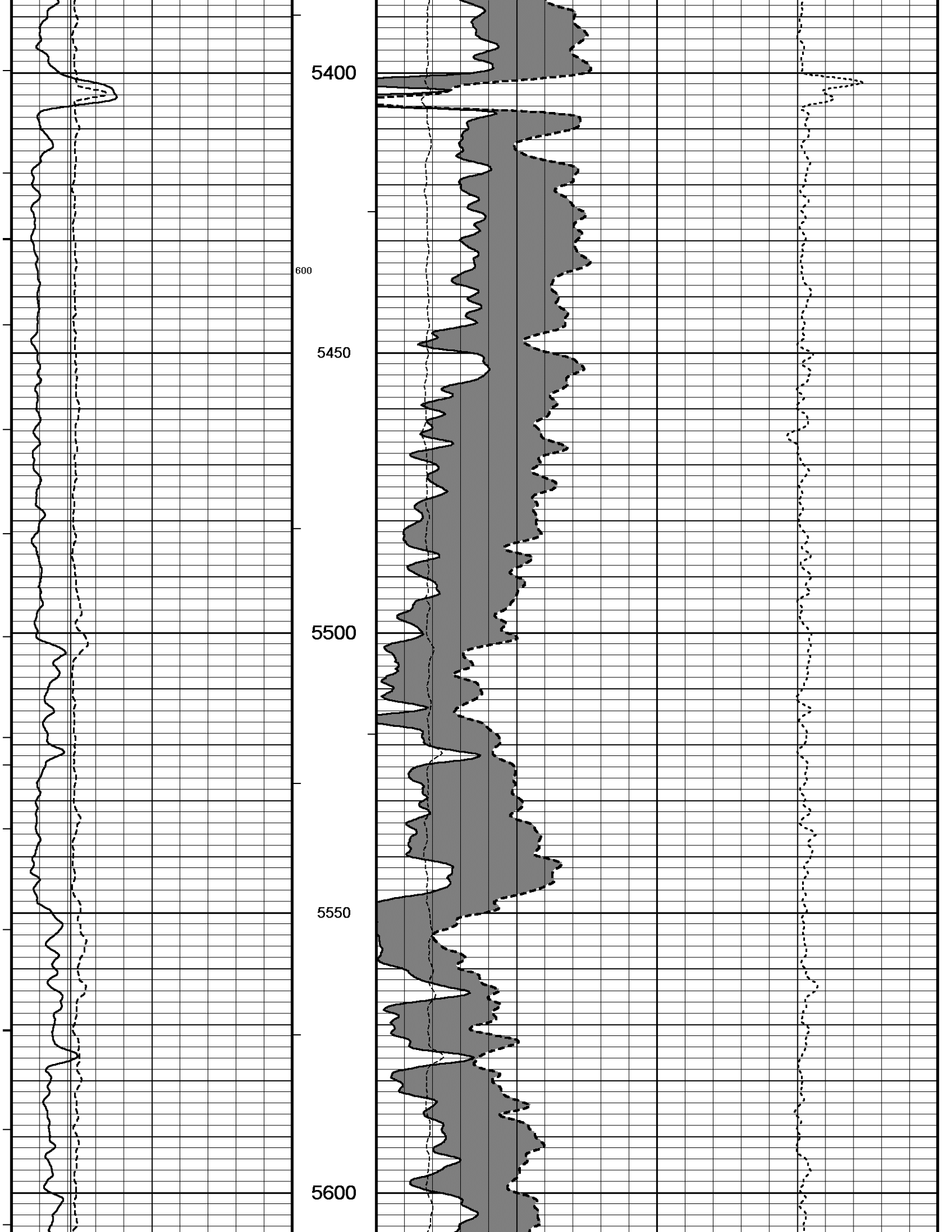


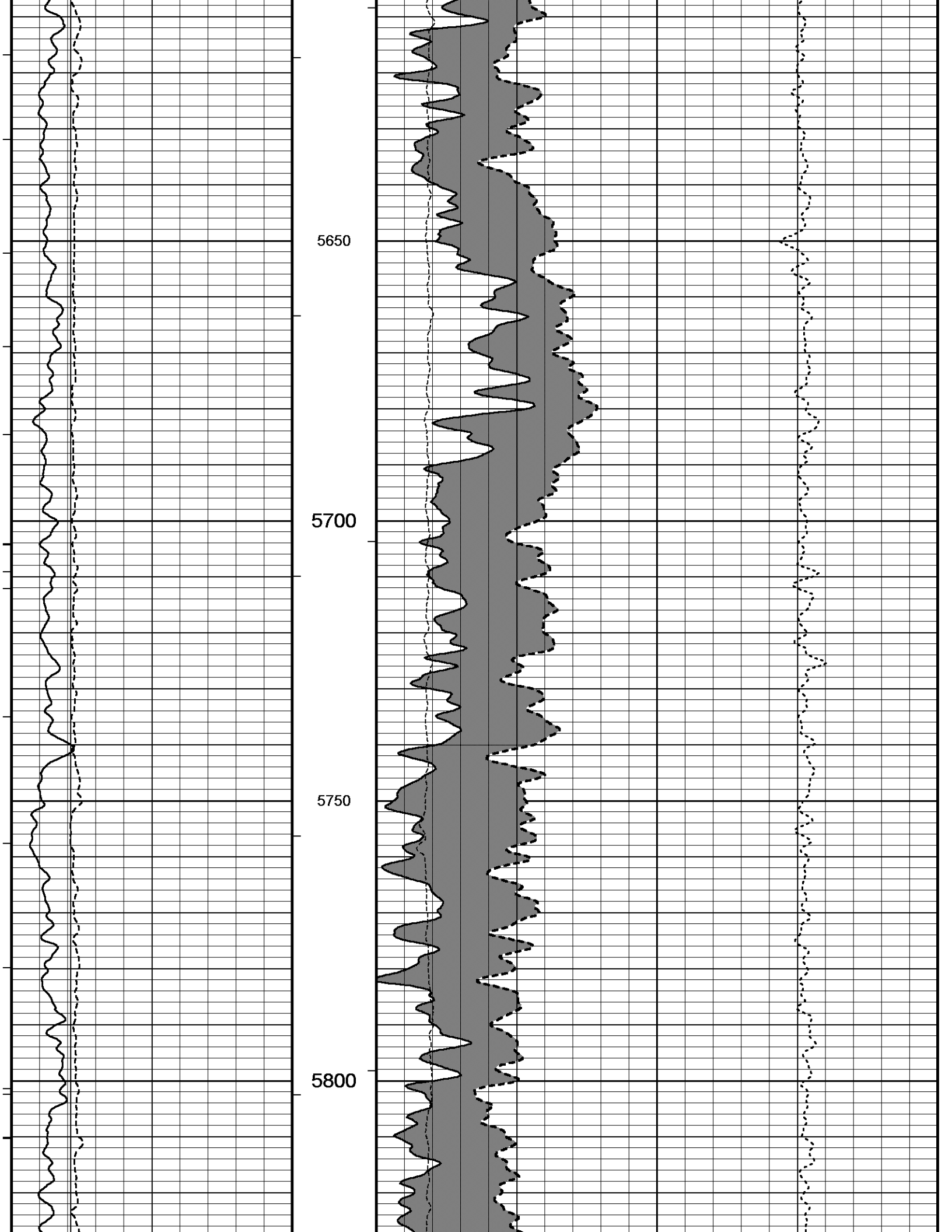


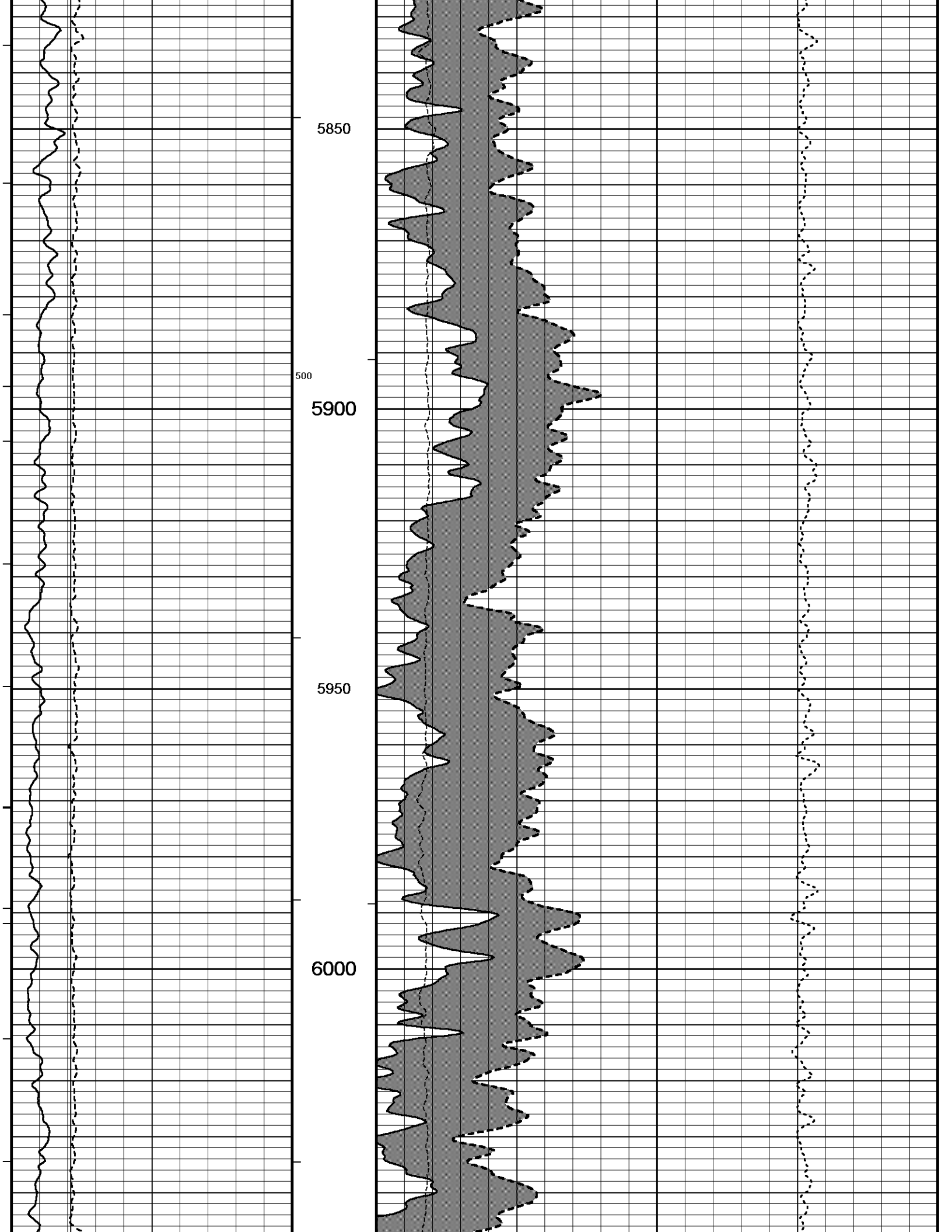


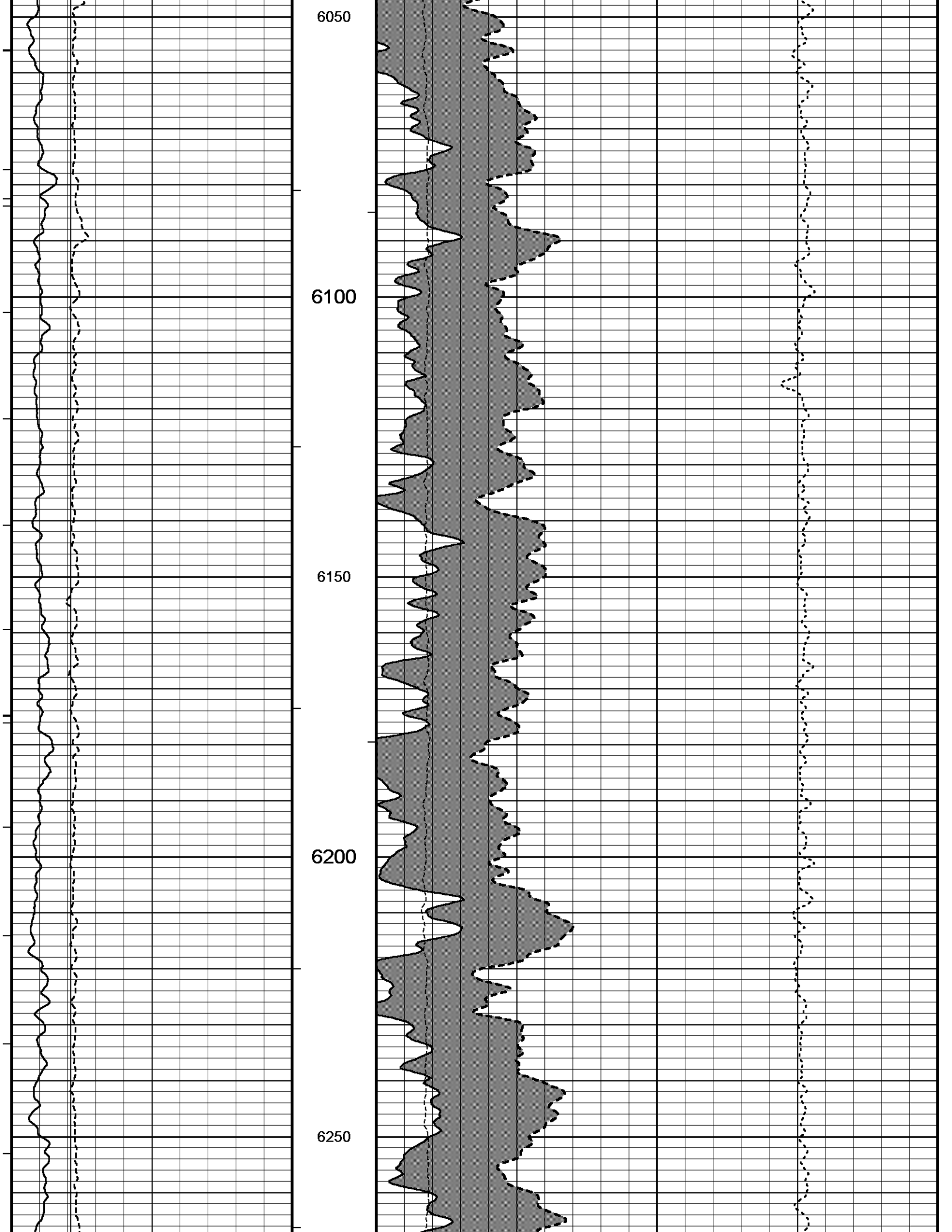


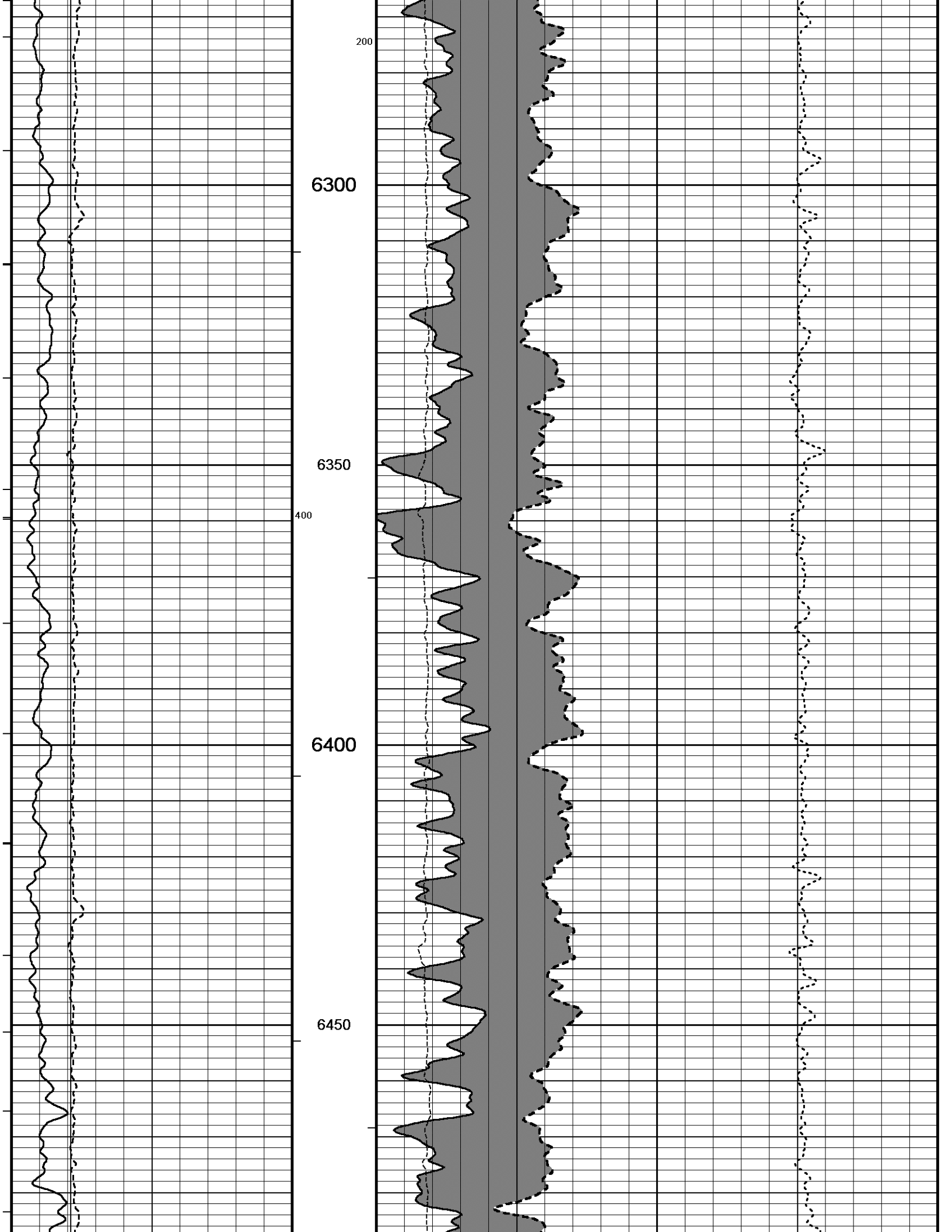


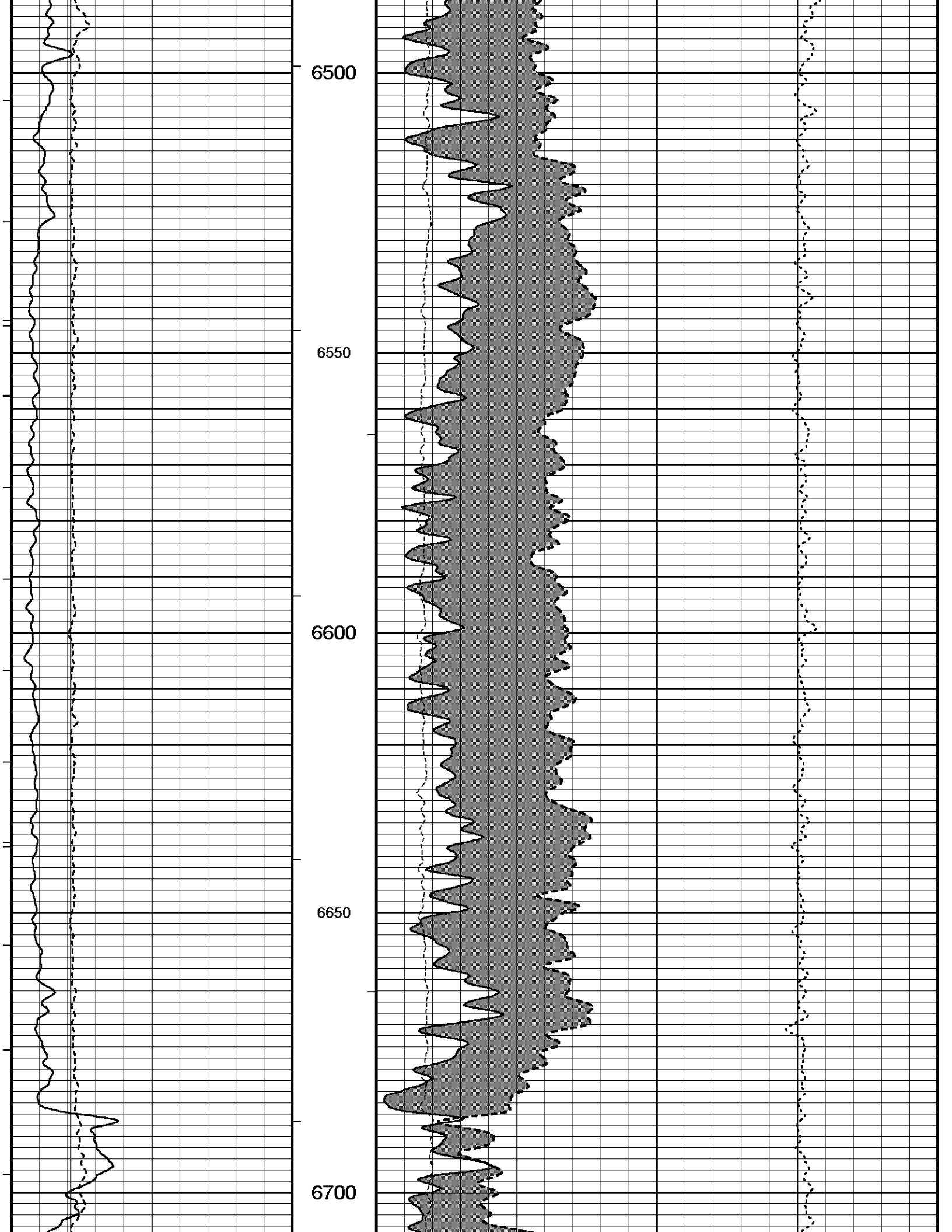


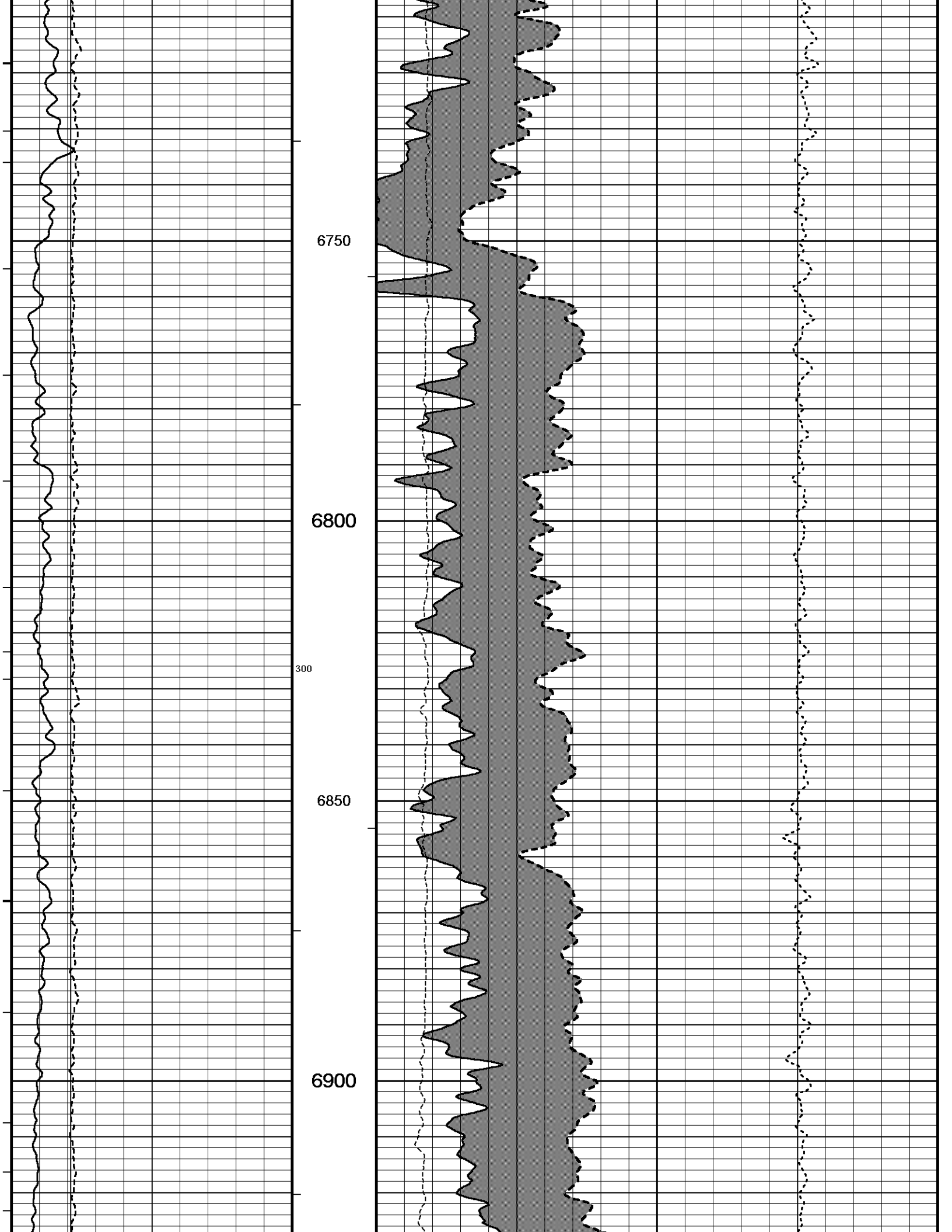


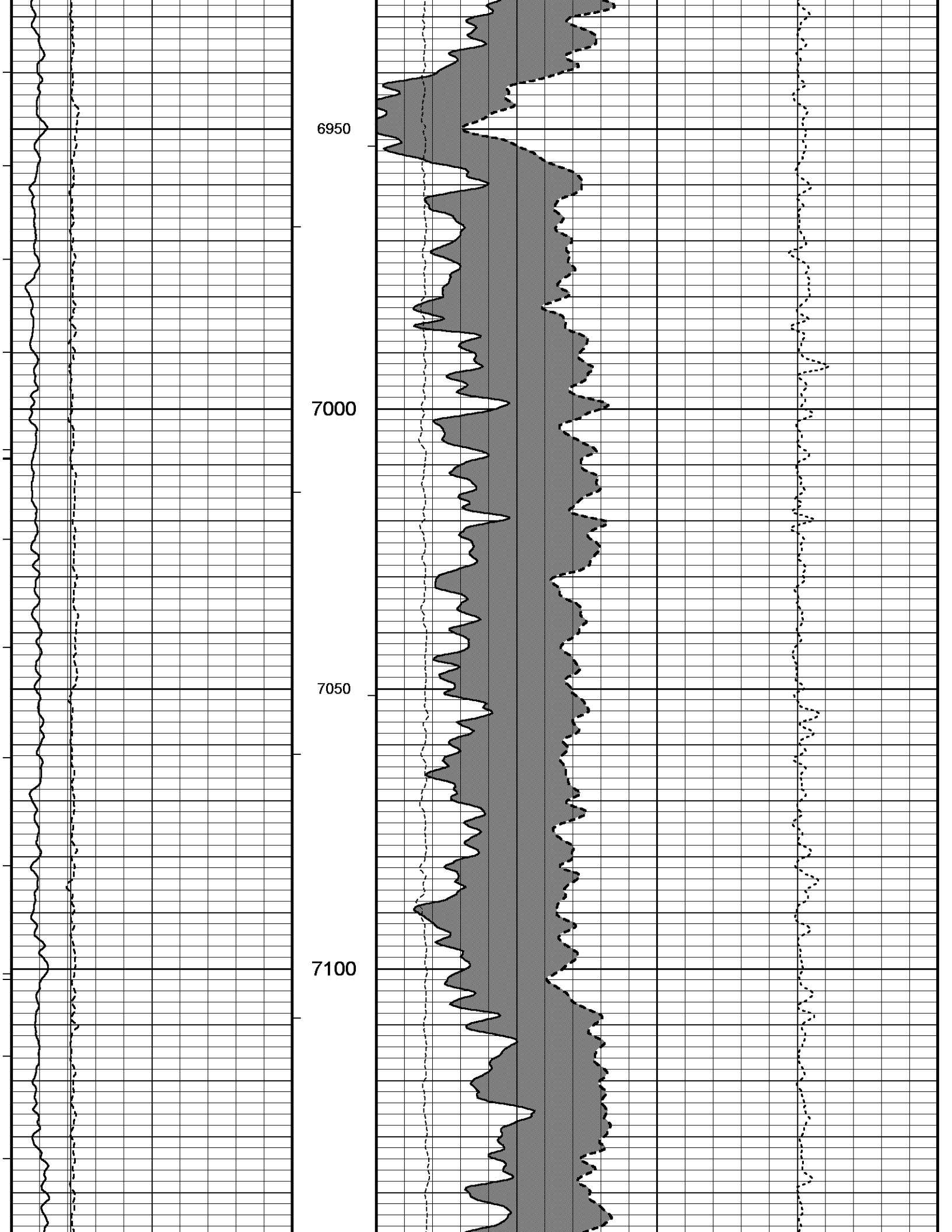


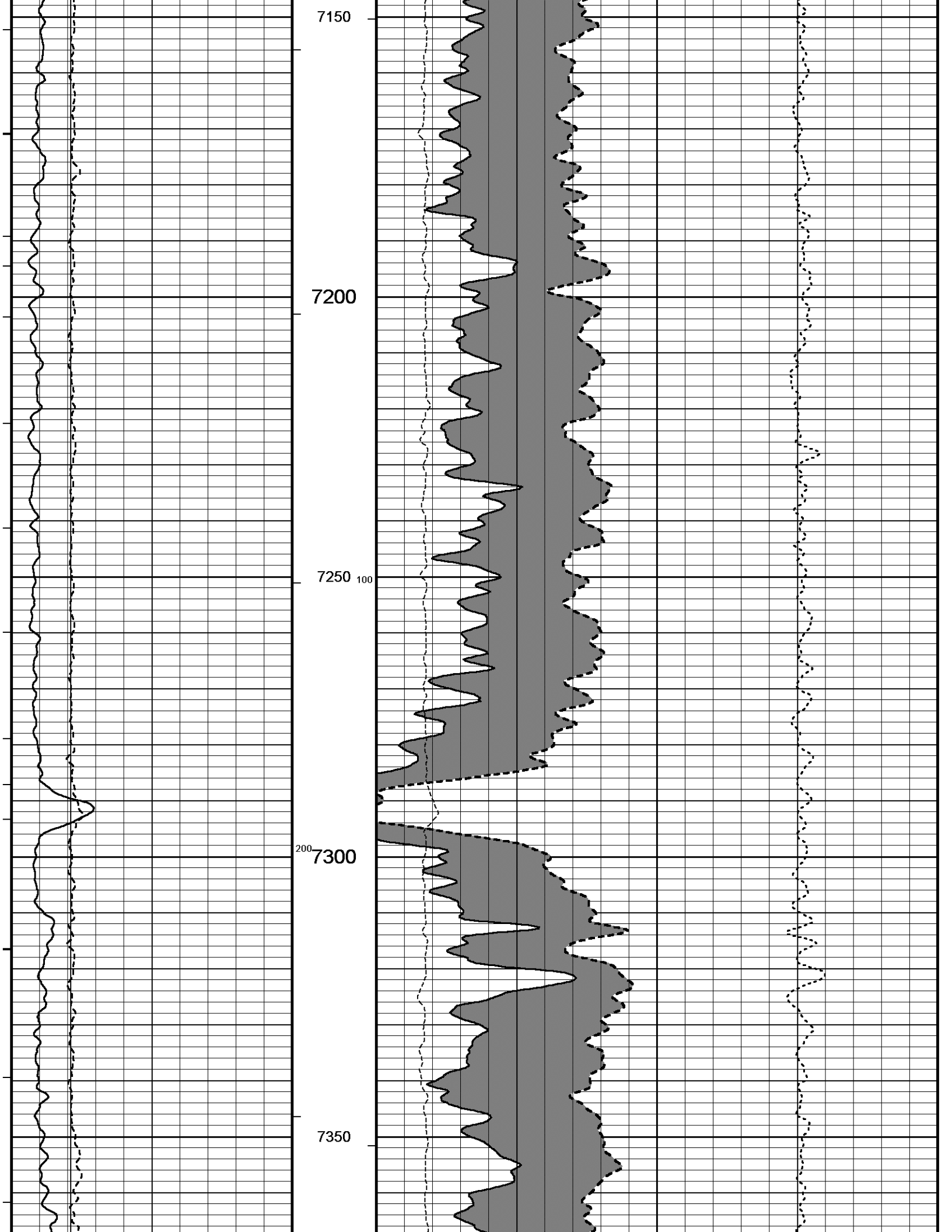


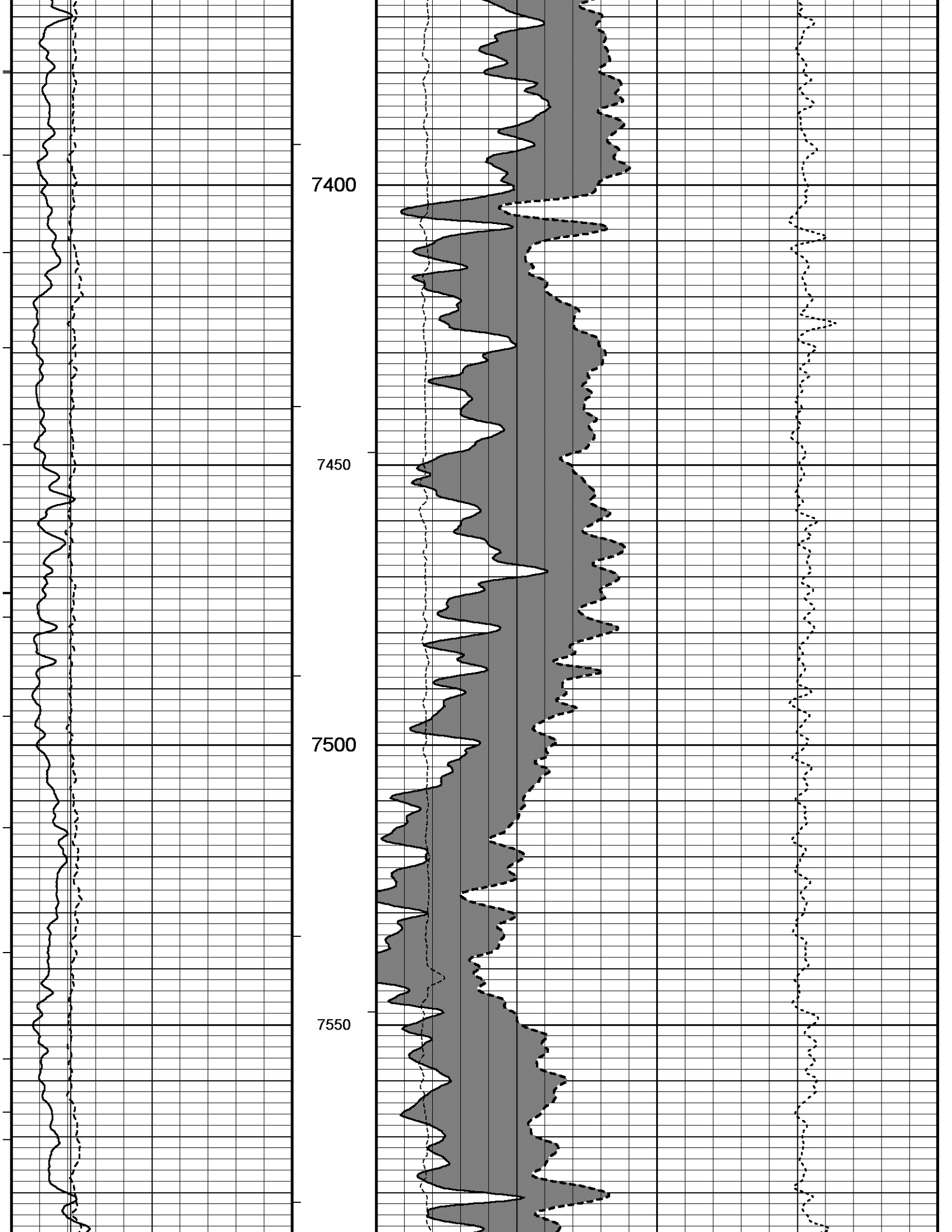


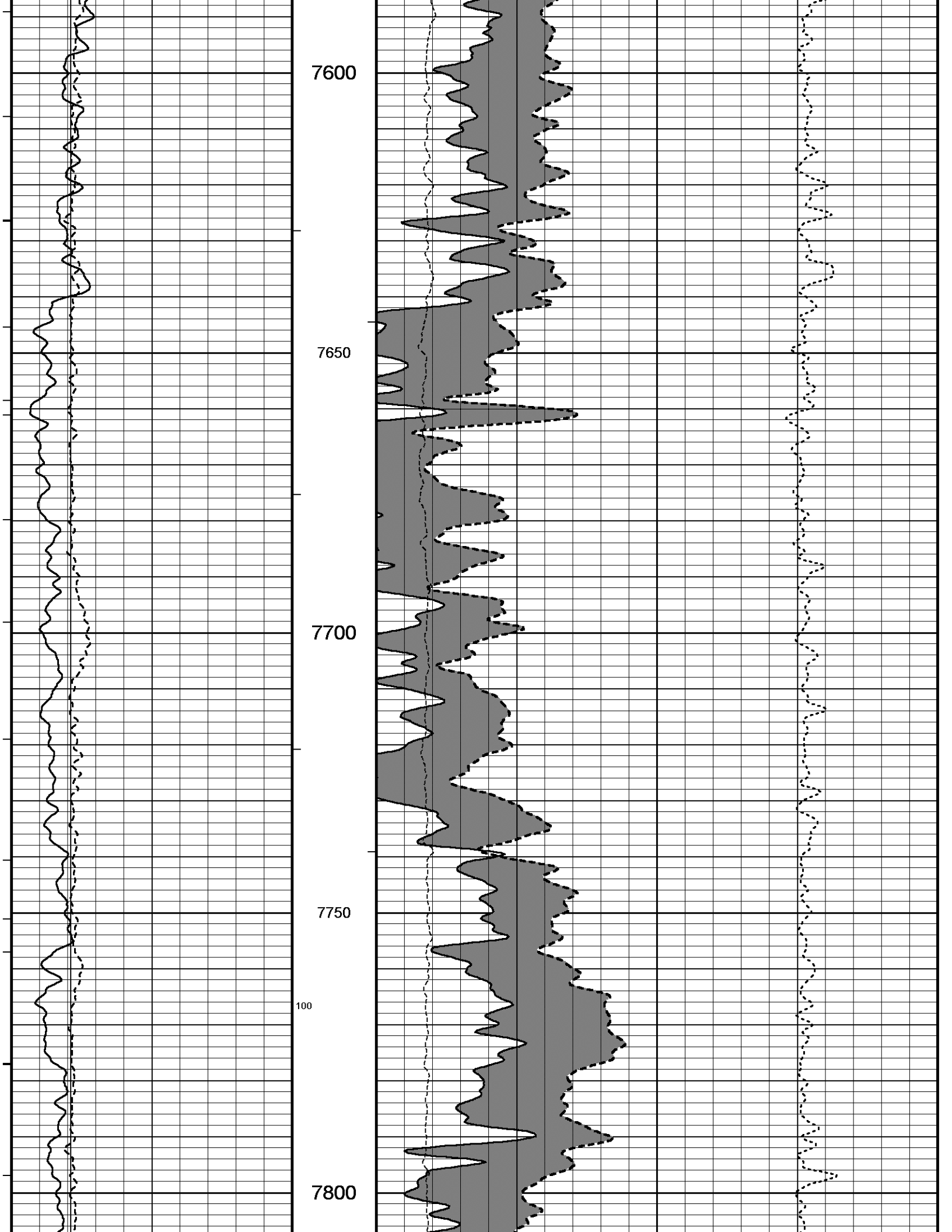


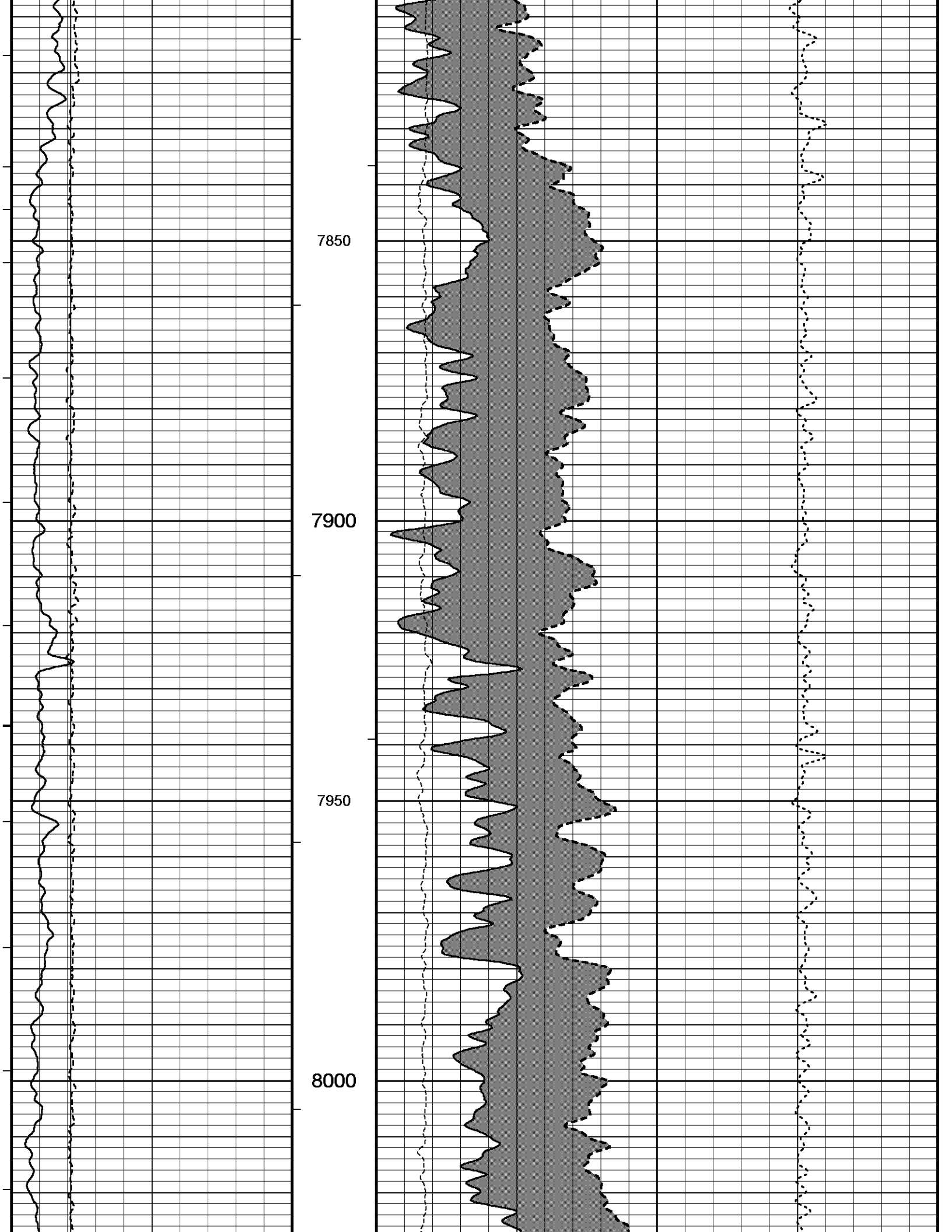


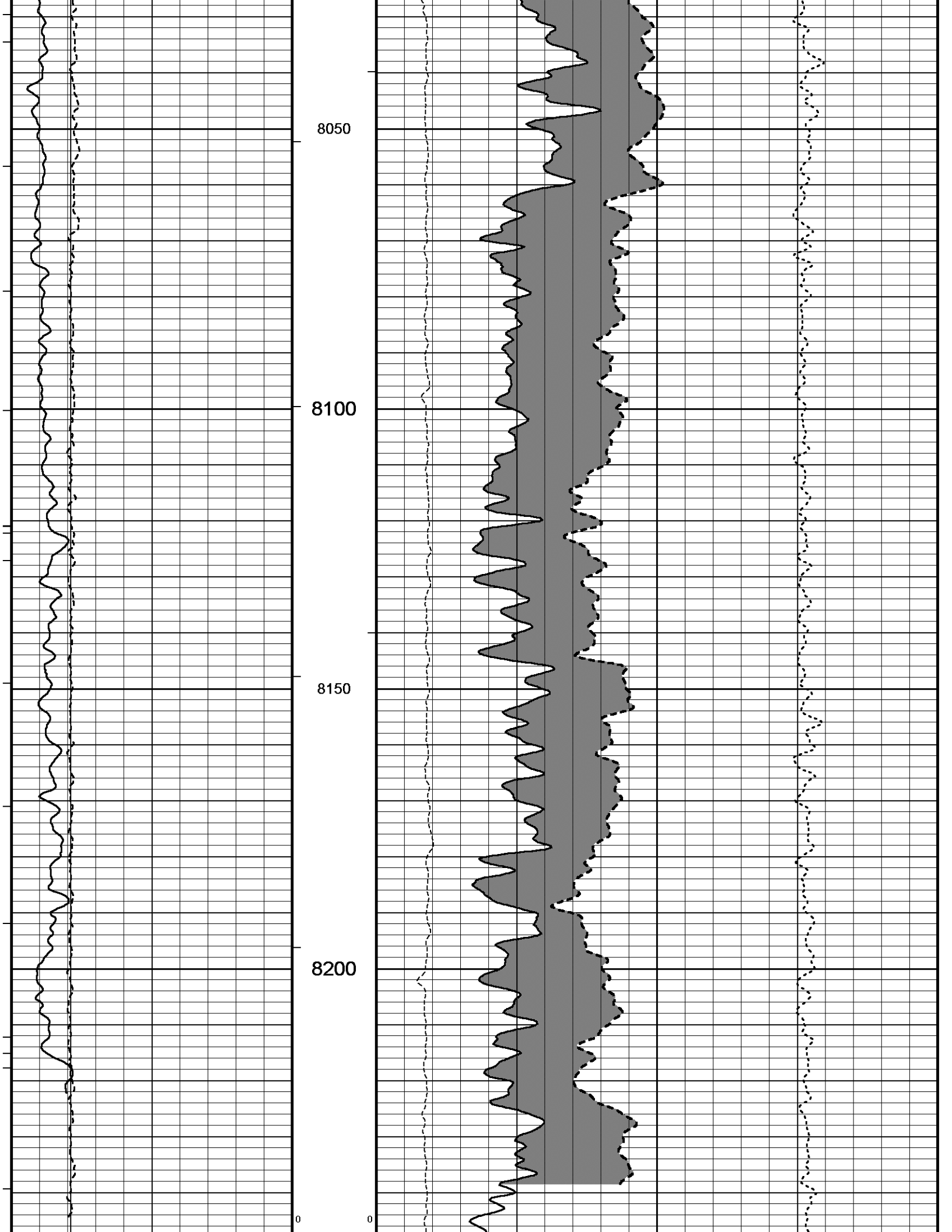


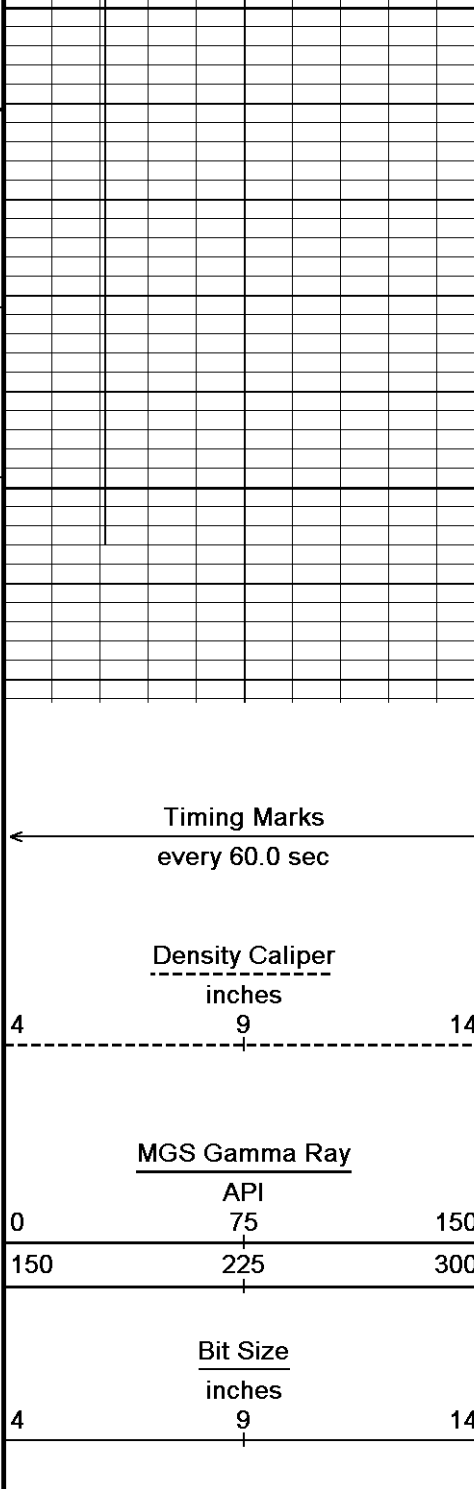












8250

8300

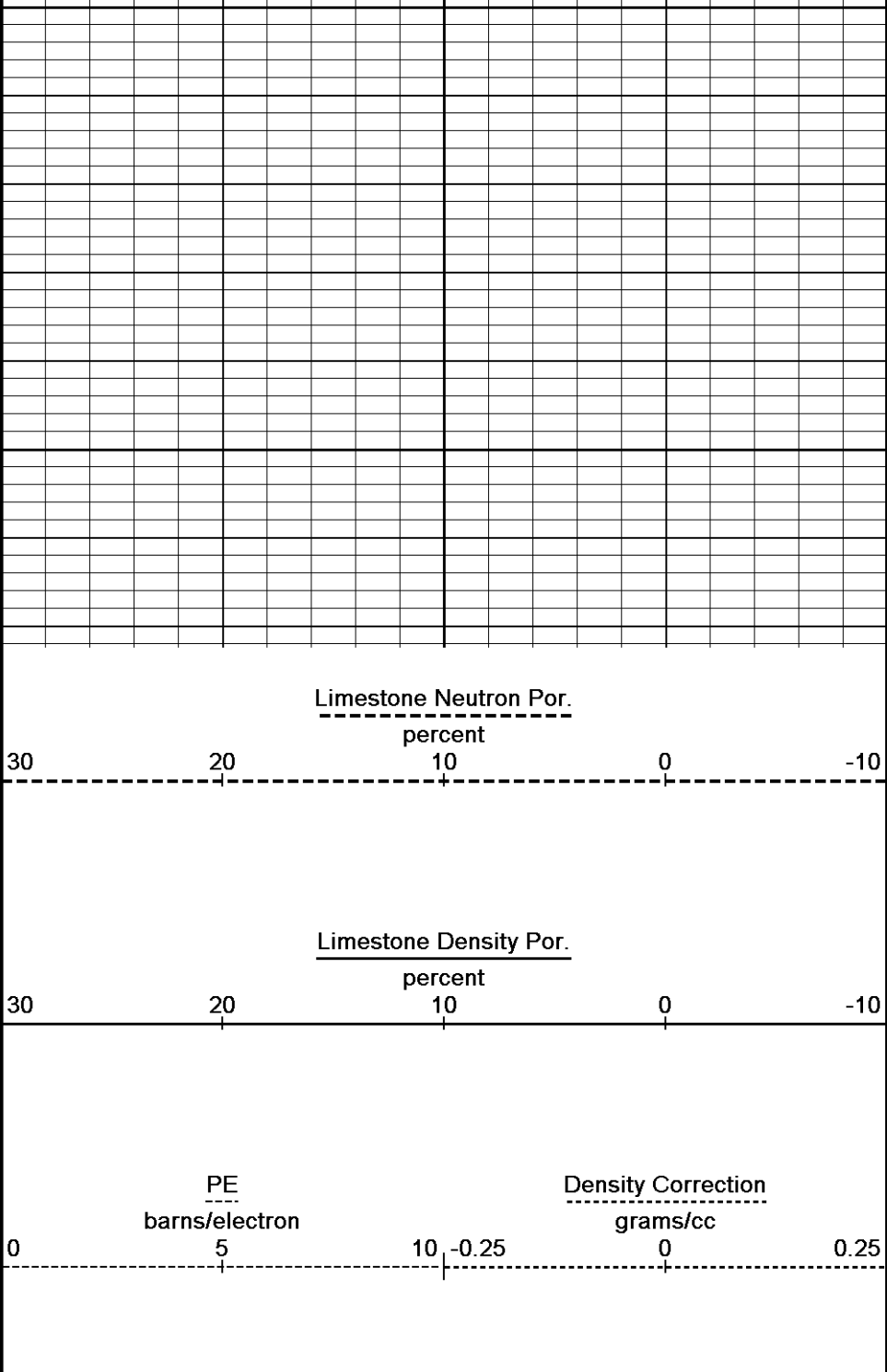
8320

Depth In Feet

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

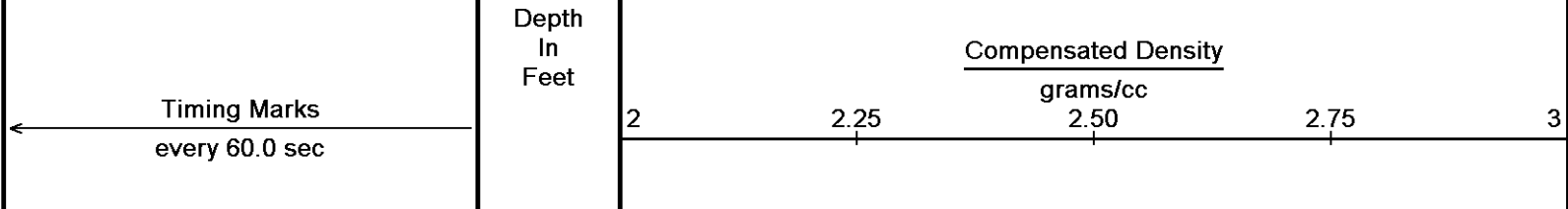


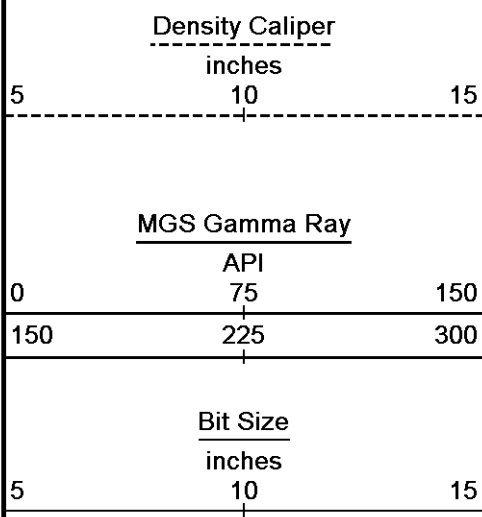
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↑ 5 INCH MAIN PASS DSC ↑

↓ 5 INCH BULK DENSITY DSC ↓

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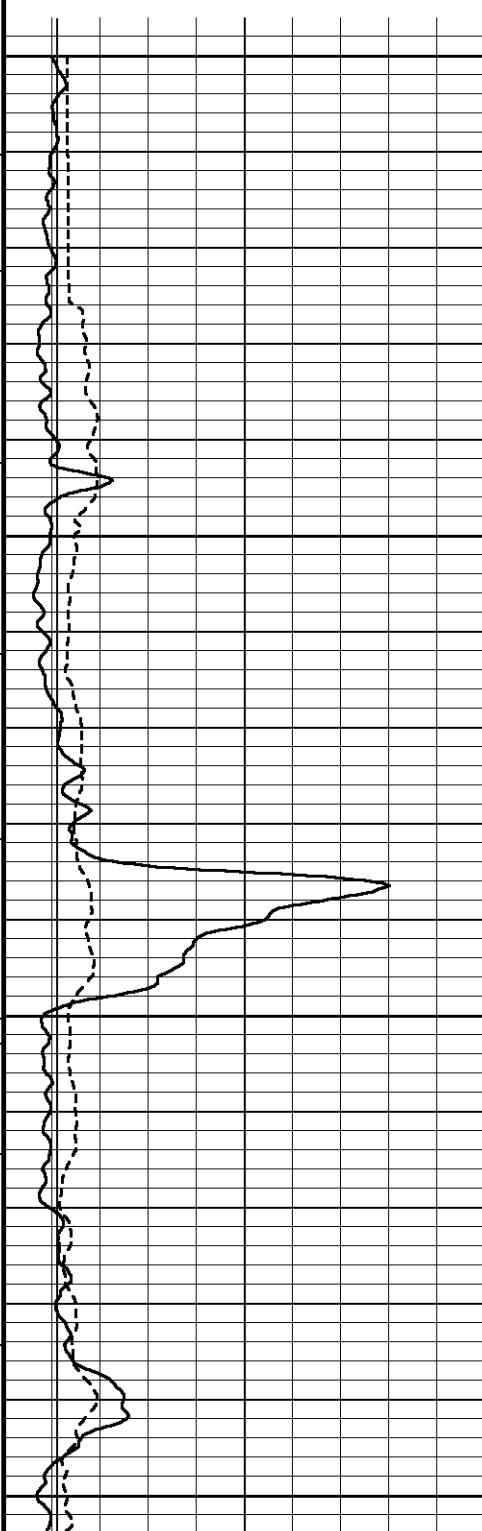
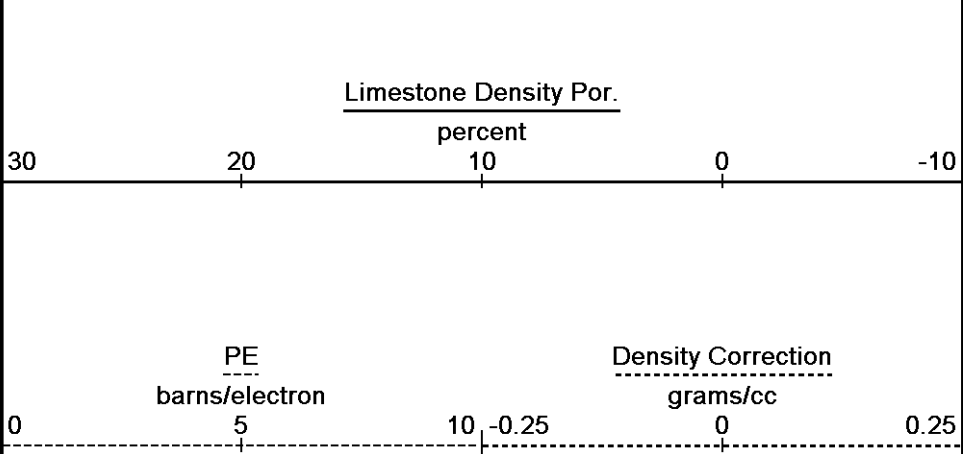




HVI every  
10 cu ft

Annular  
Integral  
every  
10 cu ft

Replay  
Scale  
1:240

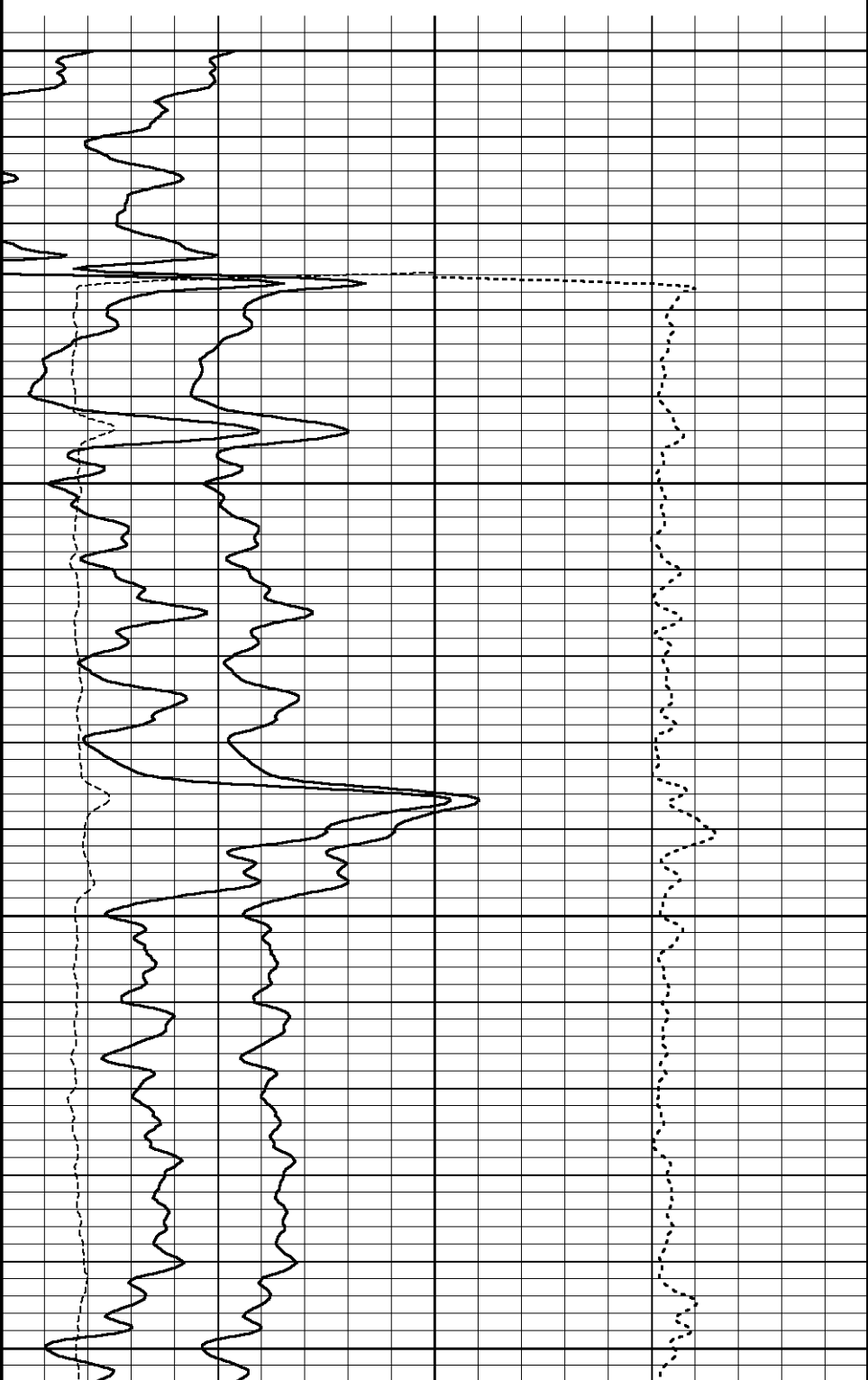


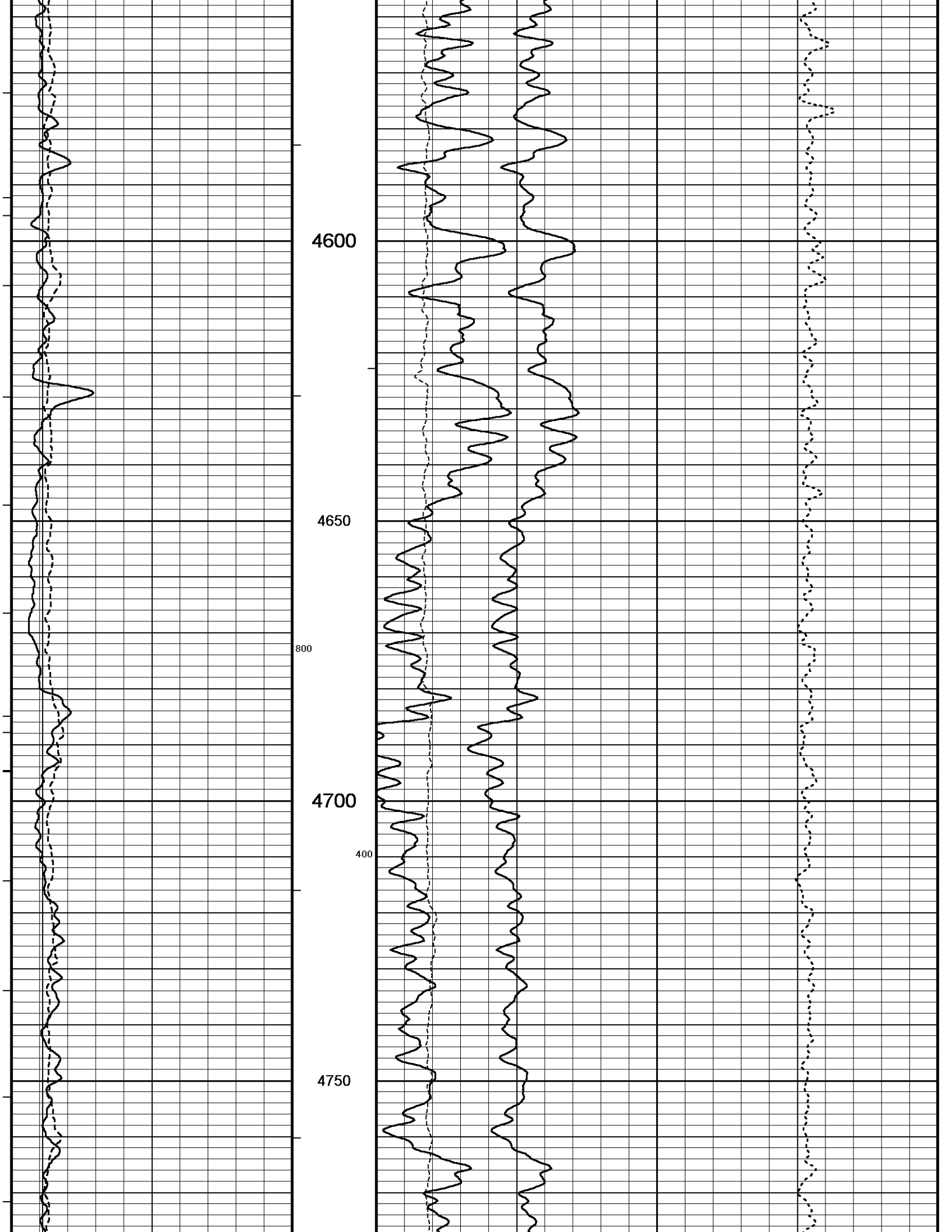
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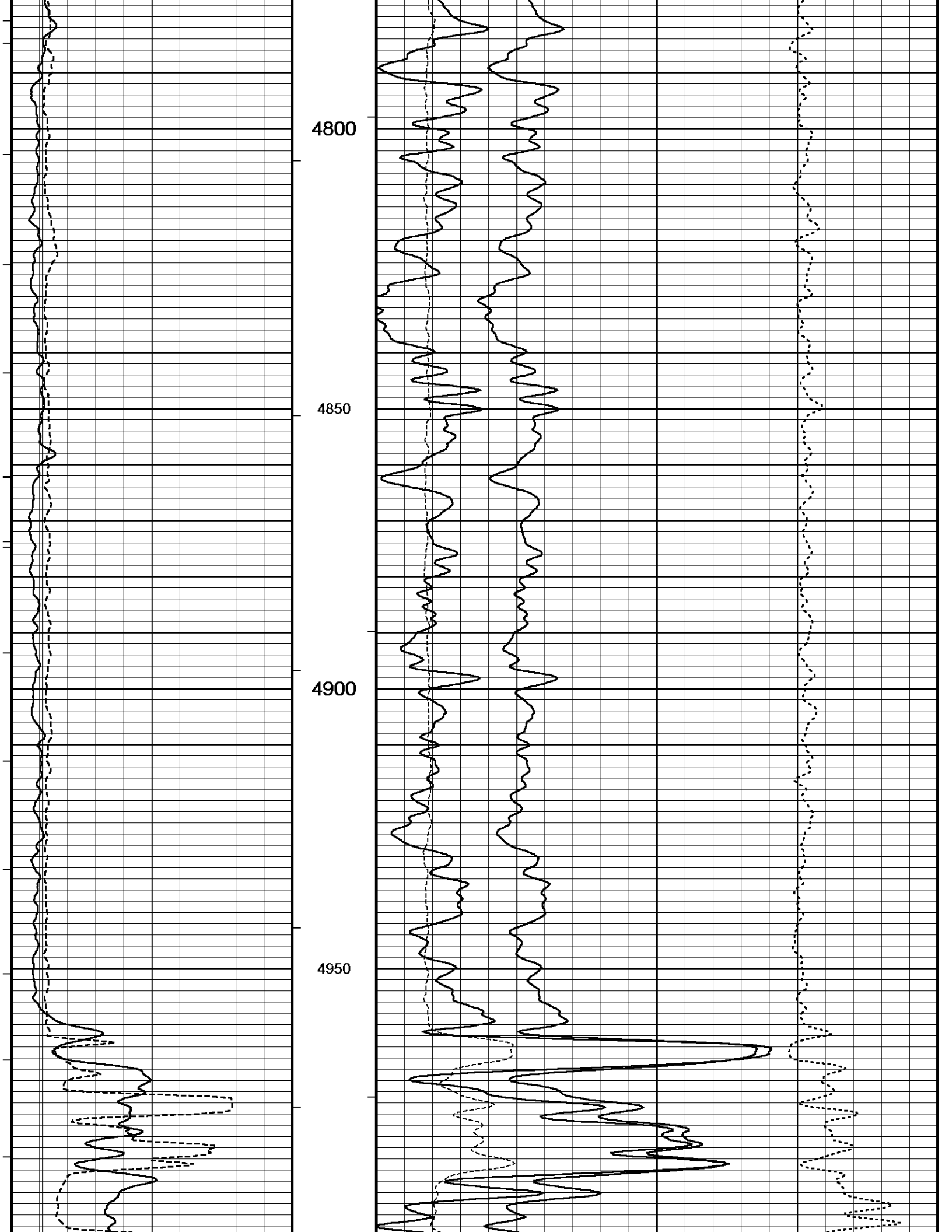
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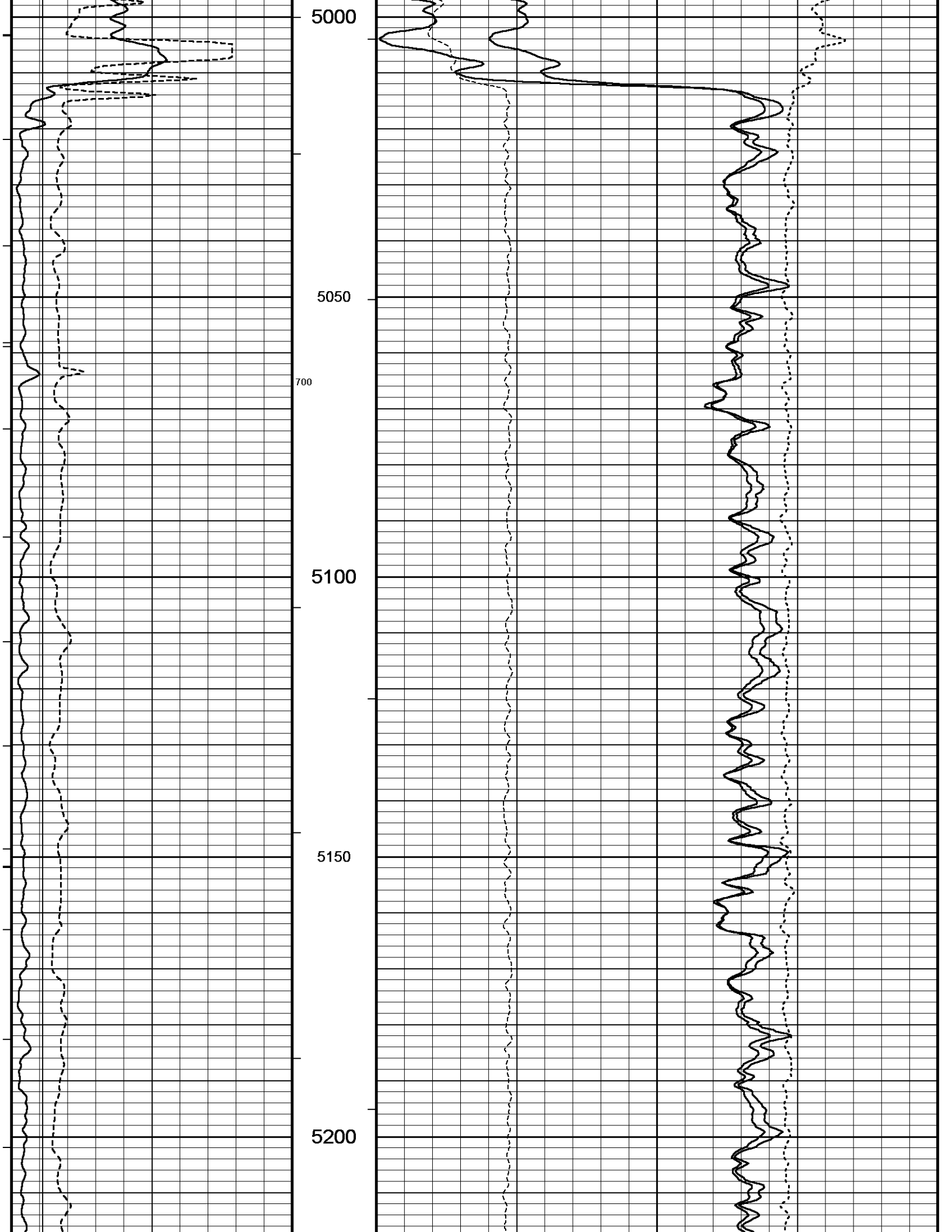
4500

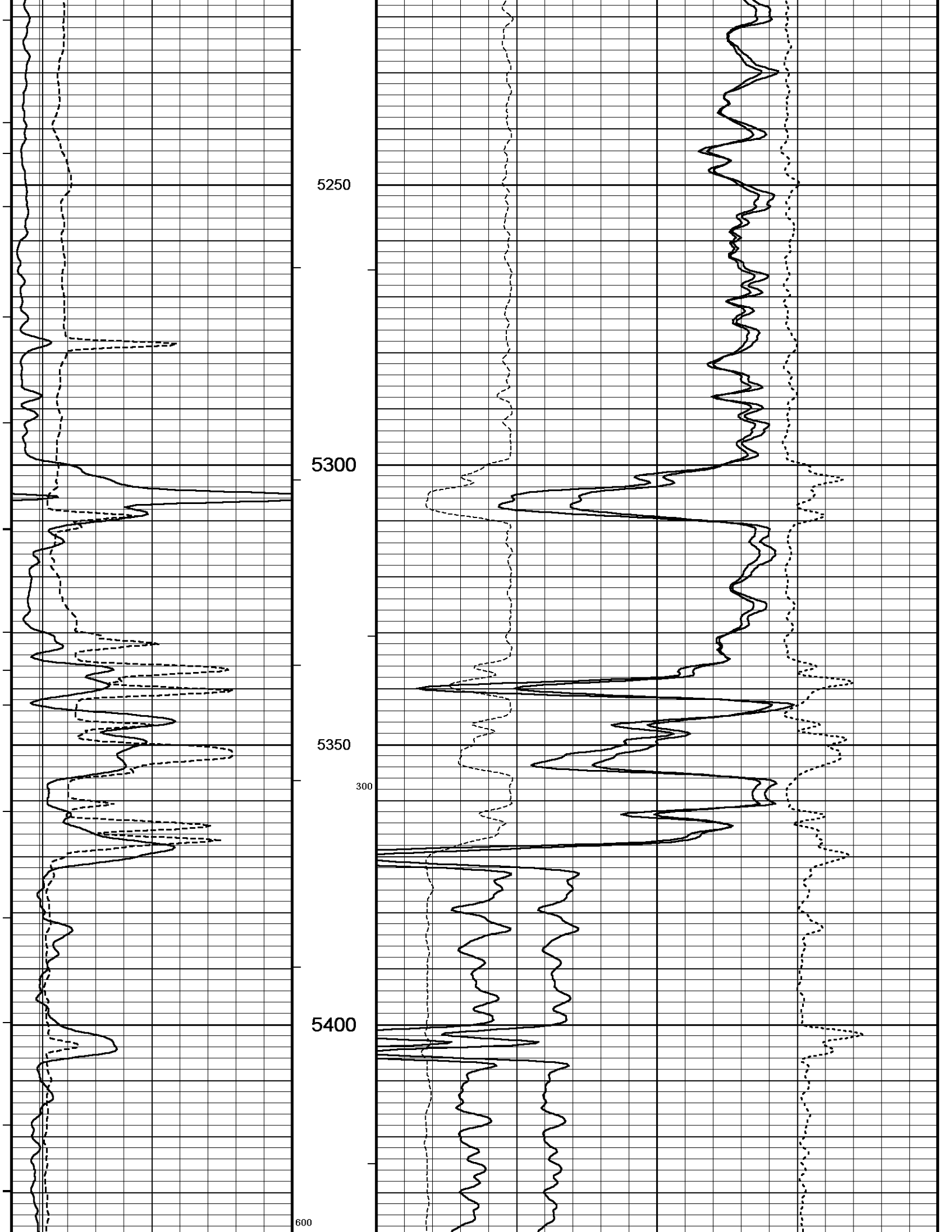
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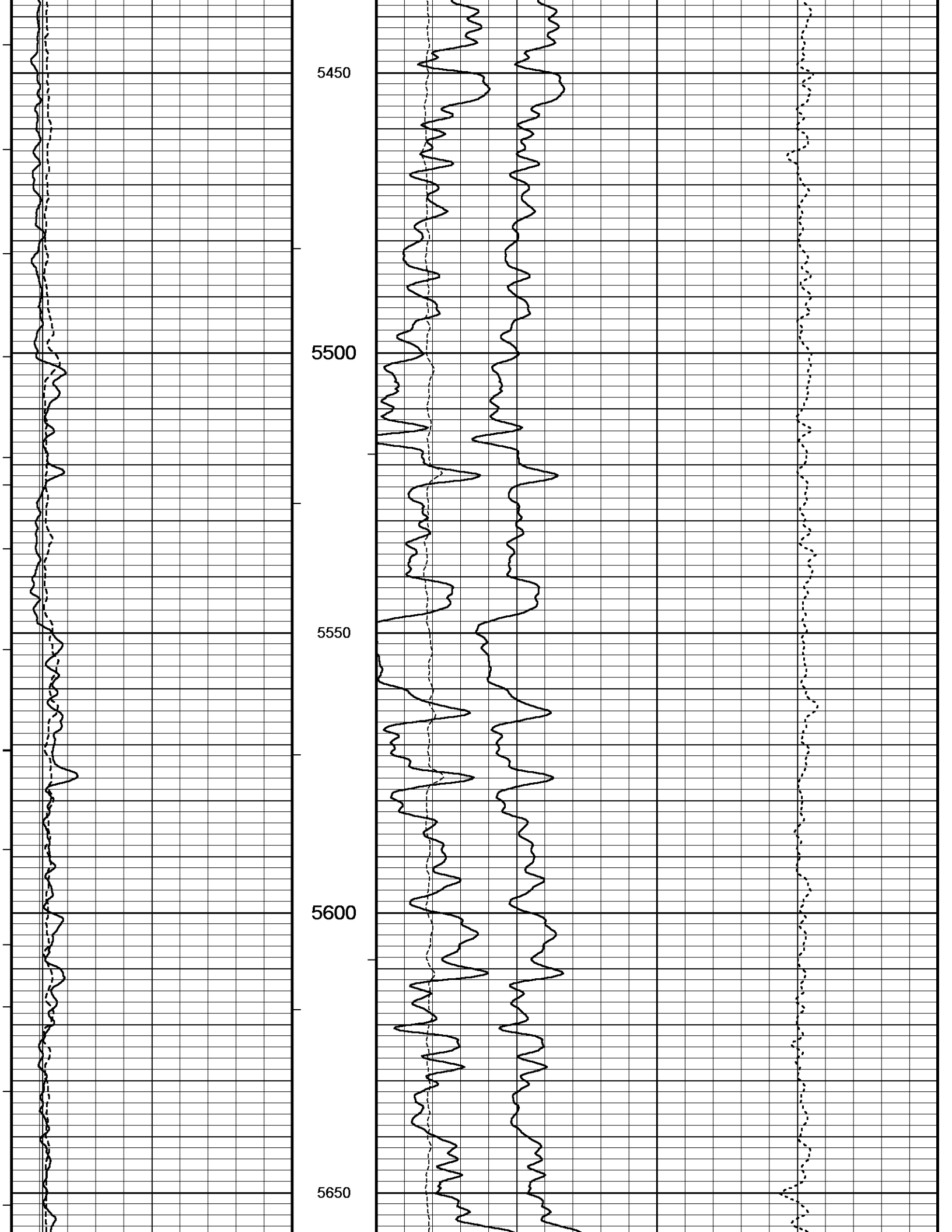


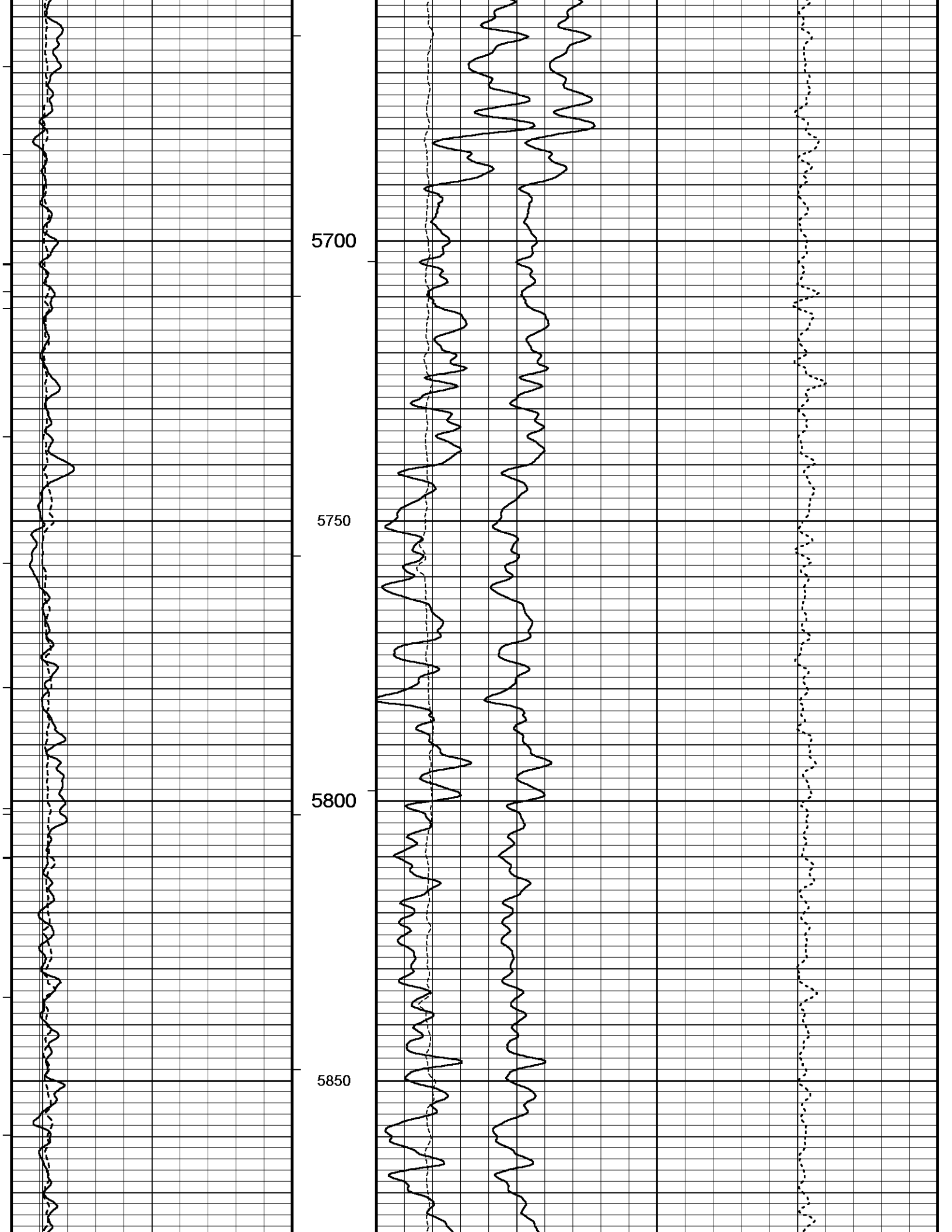


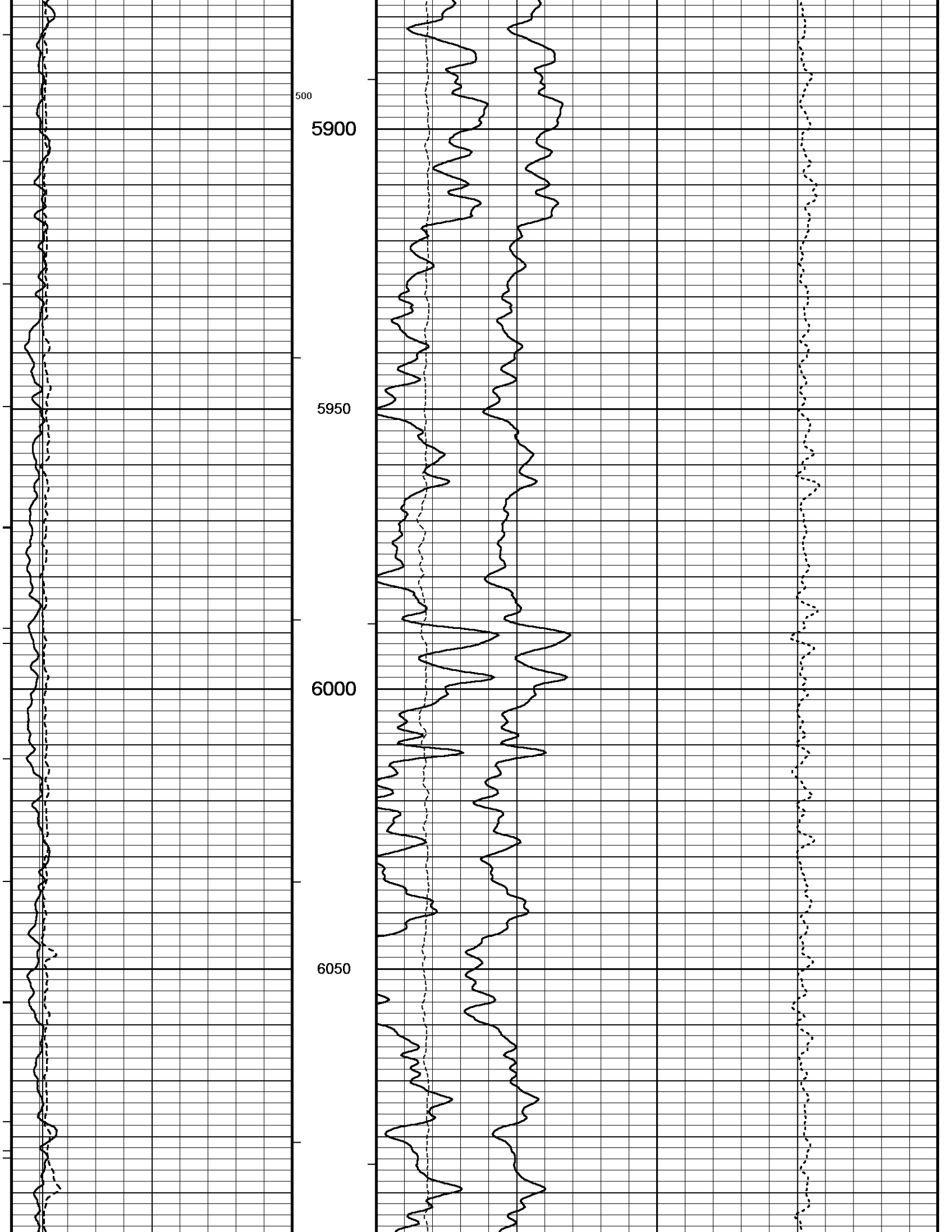


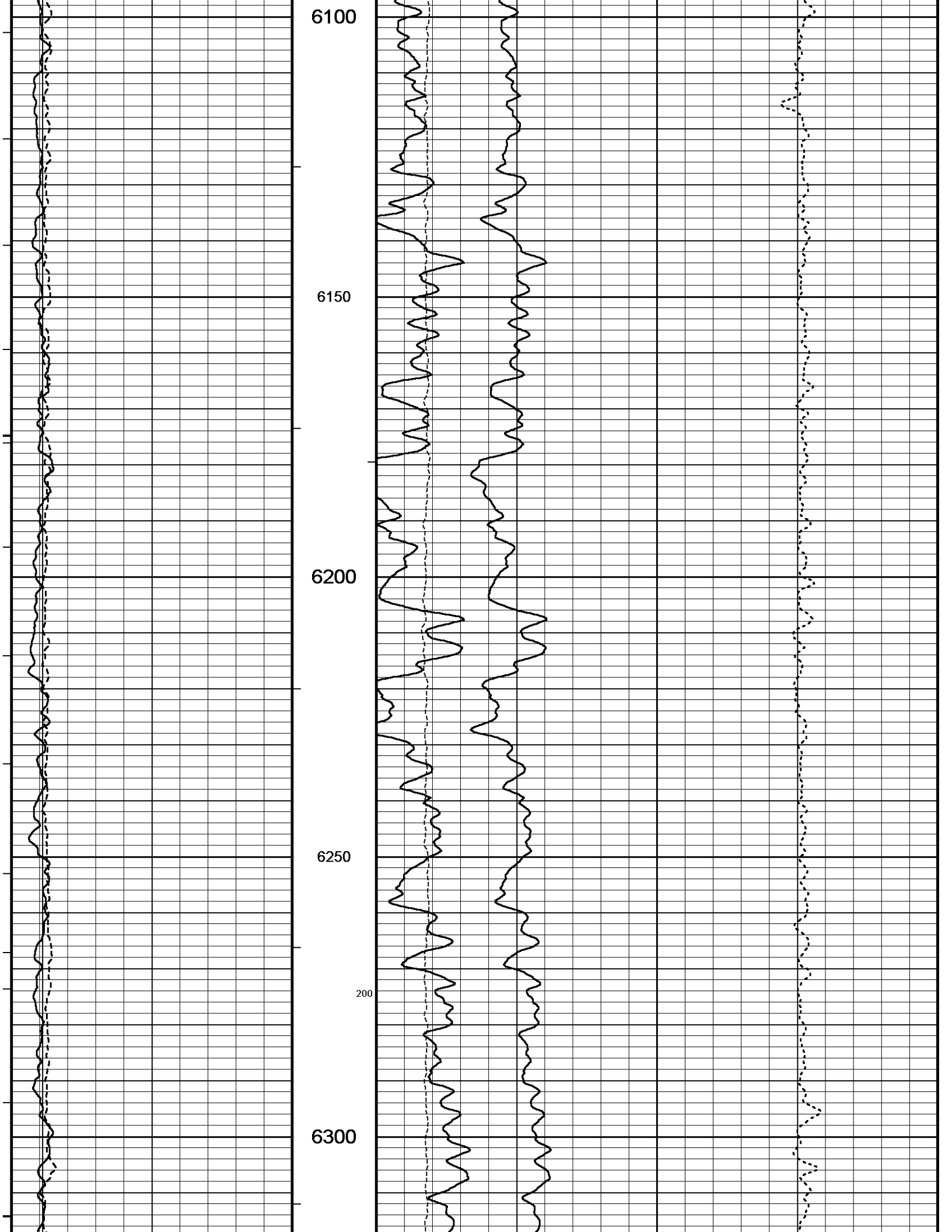


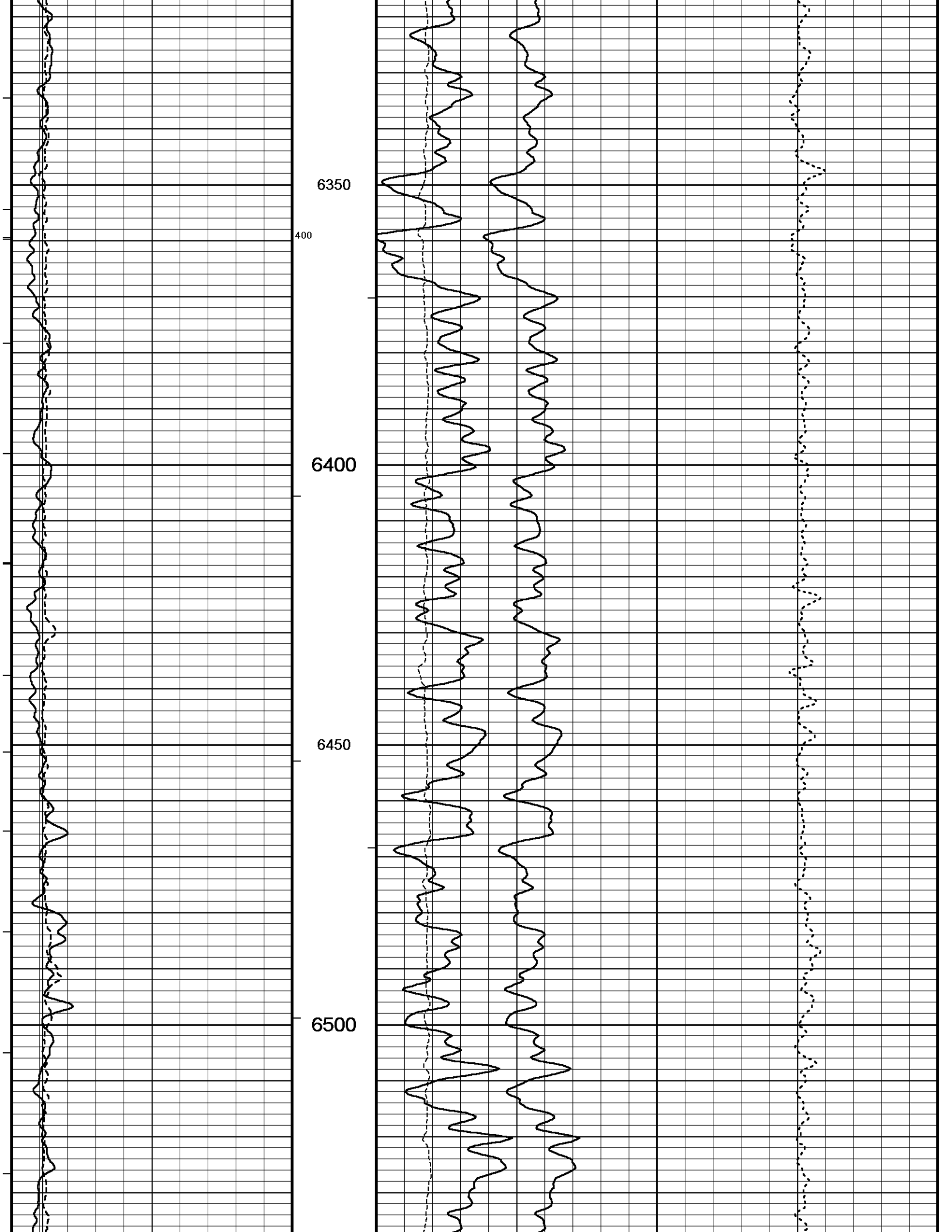


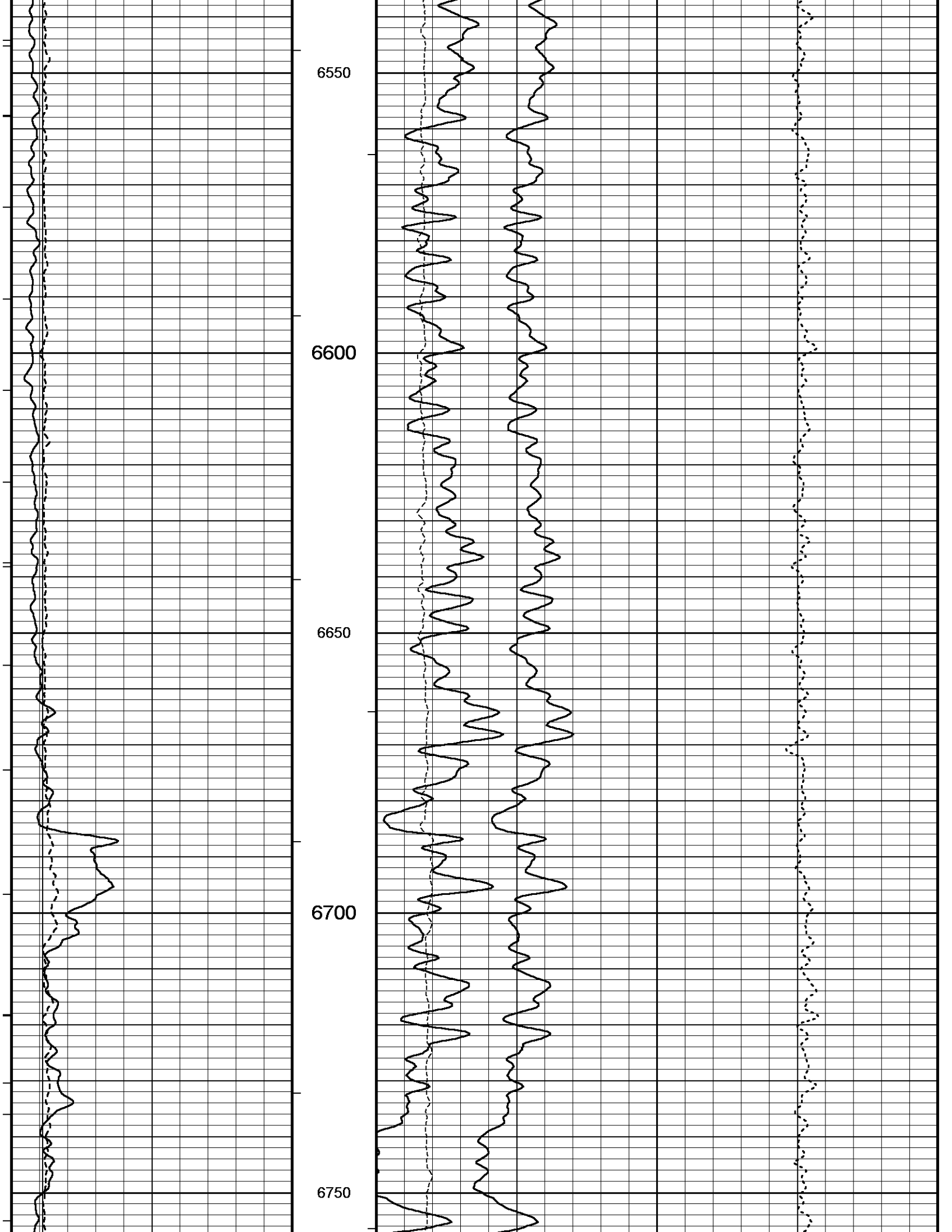


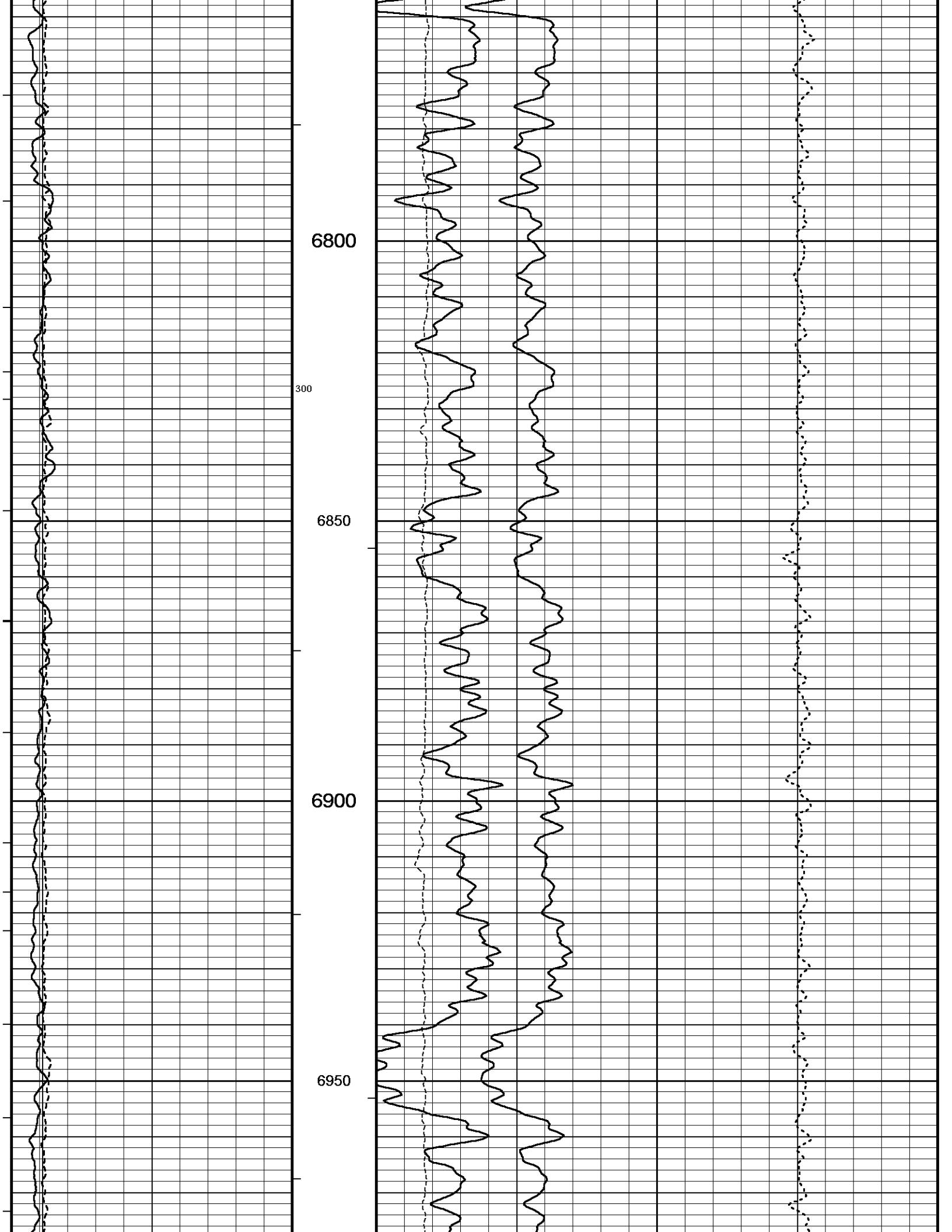


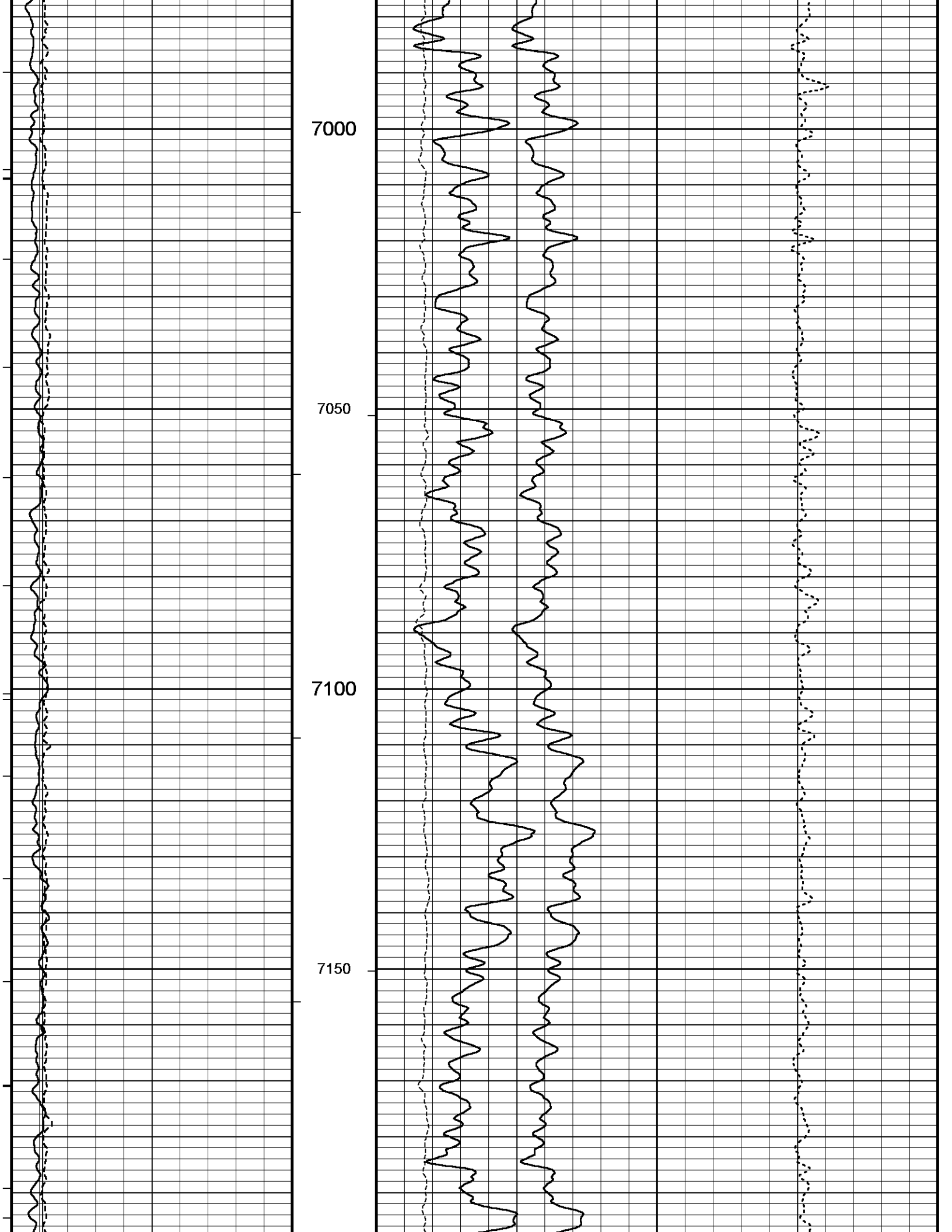


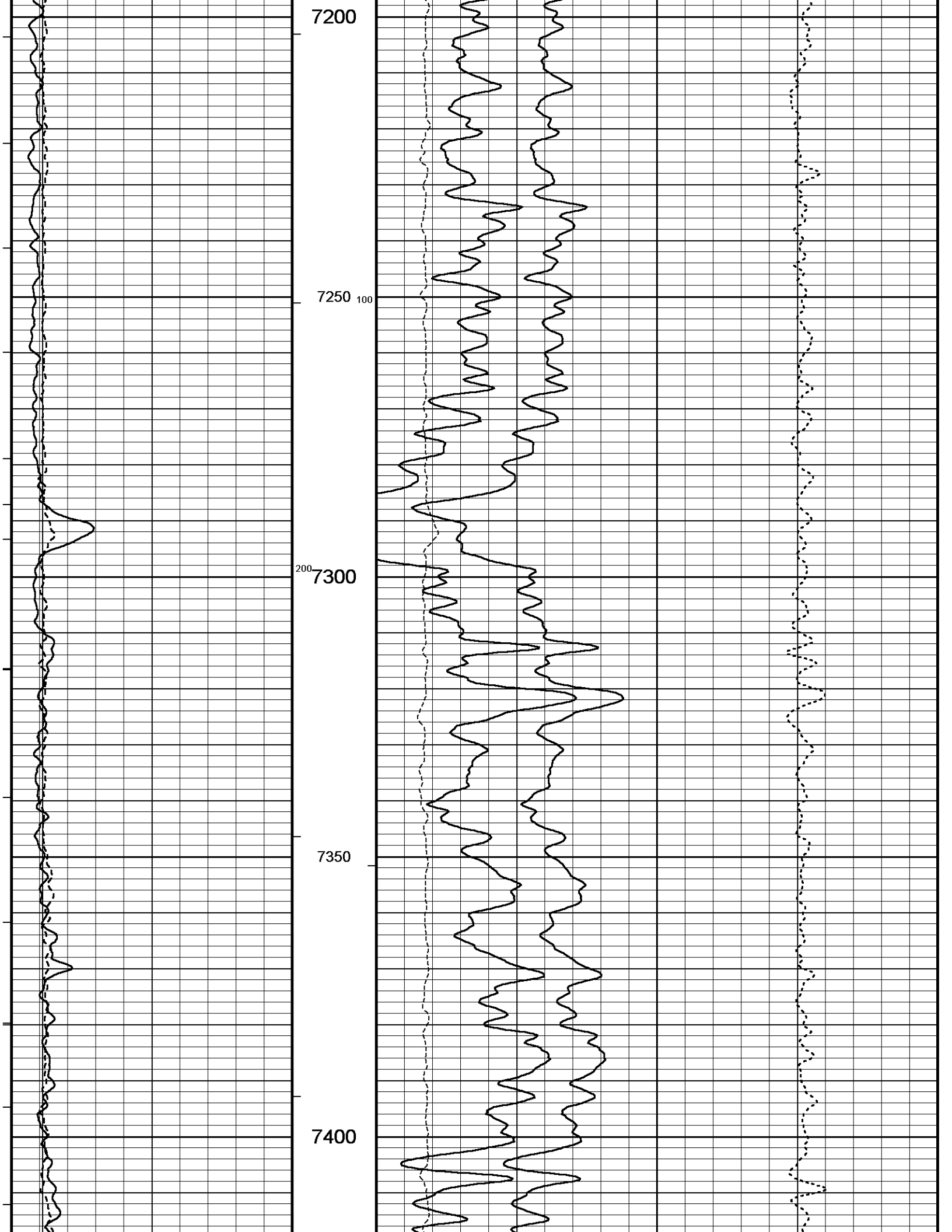


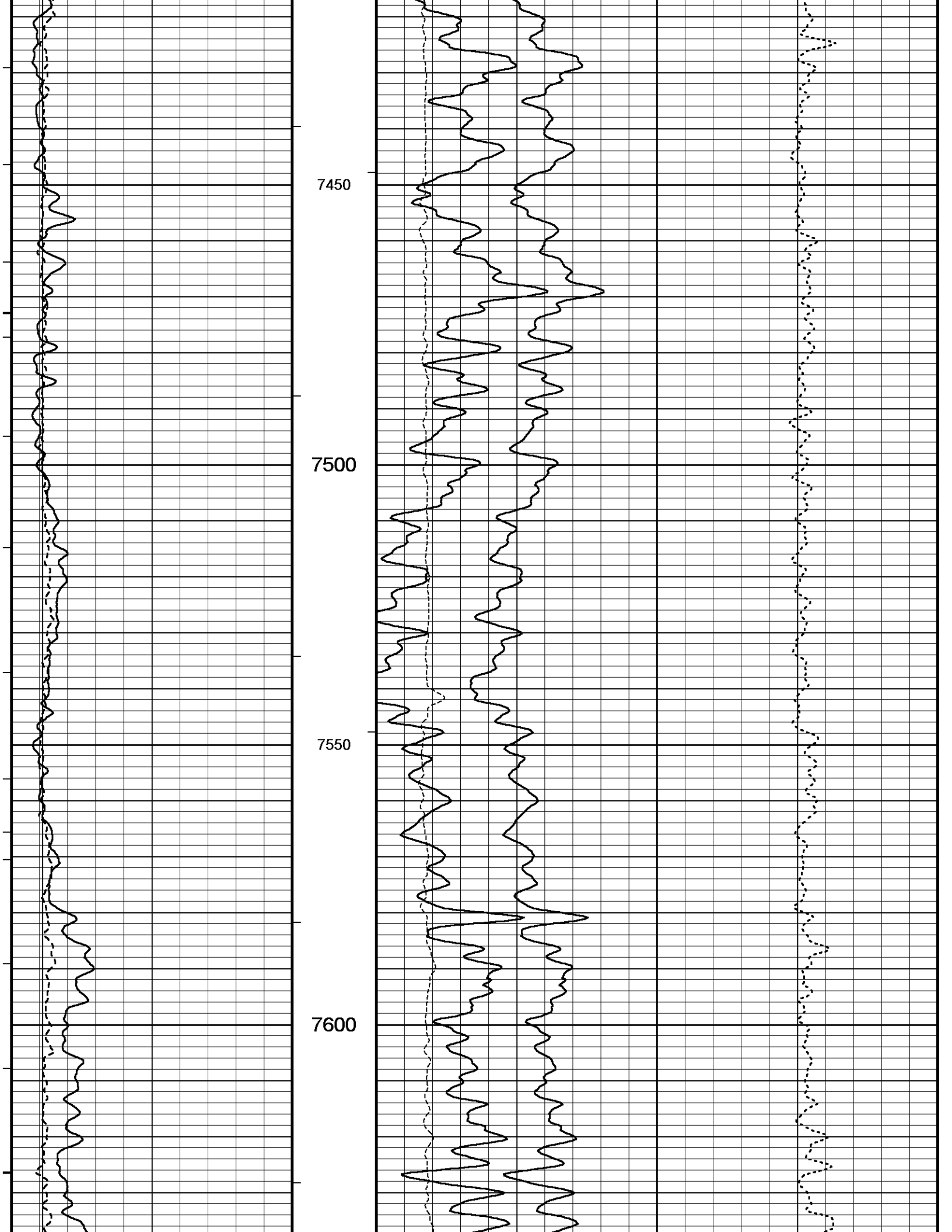


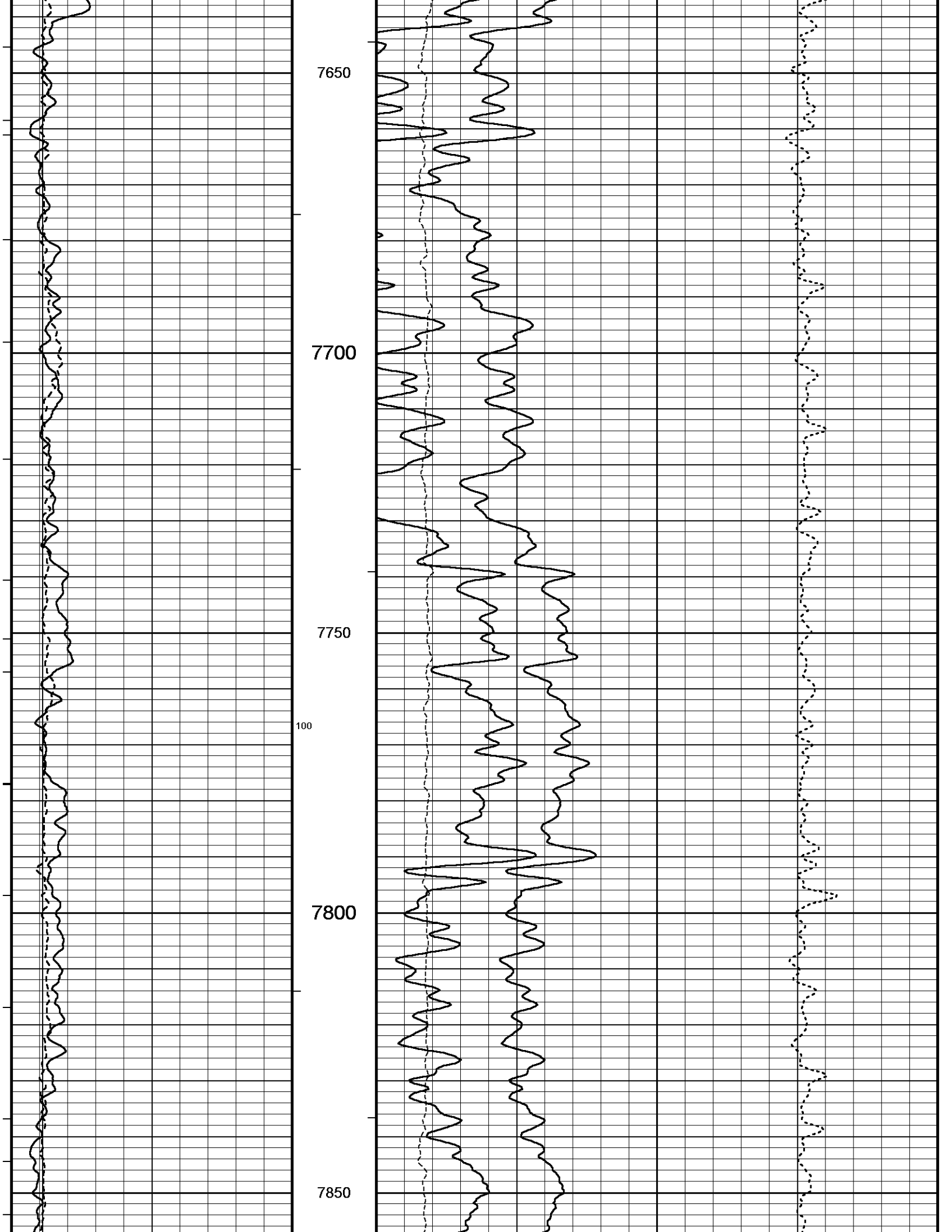


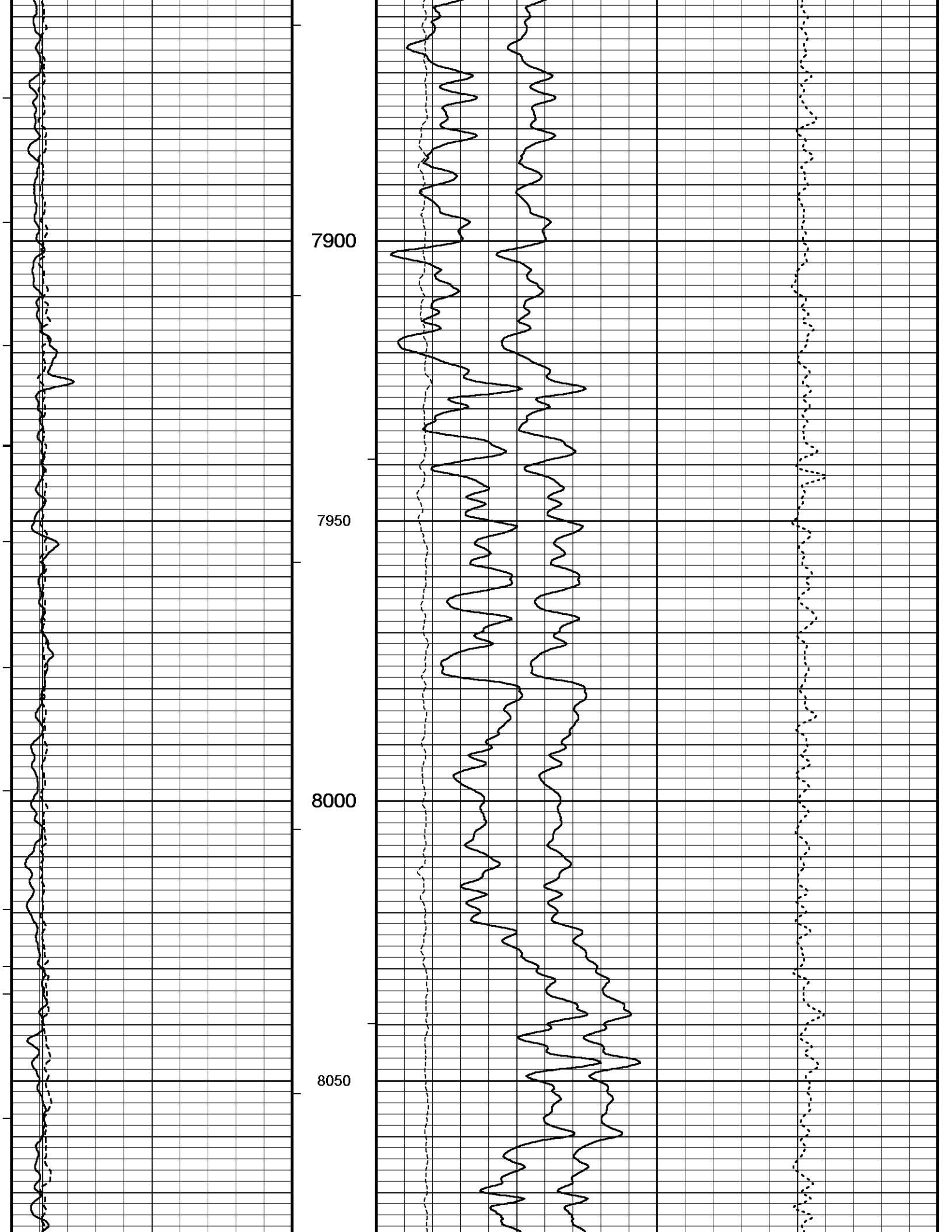


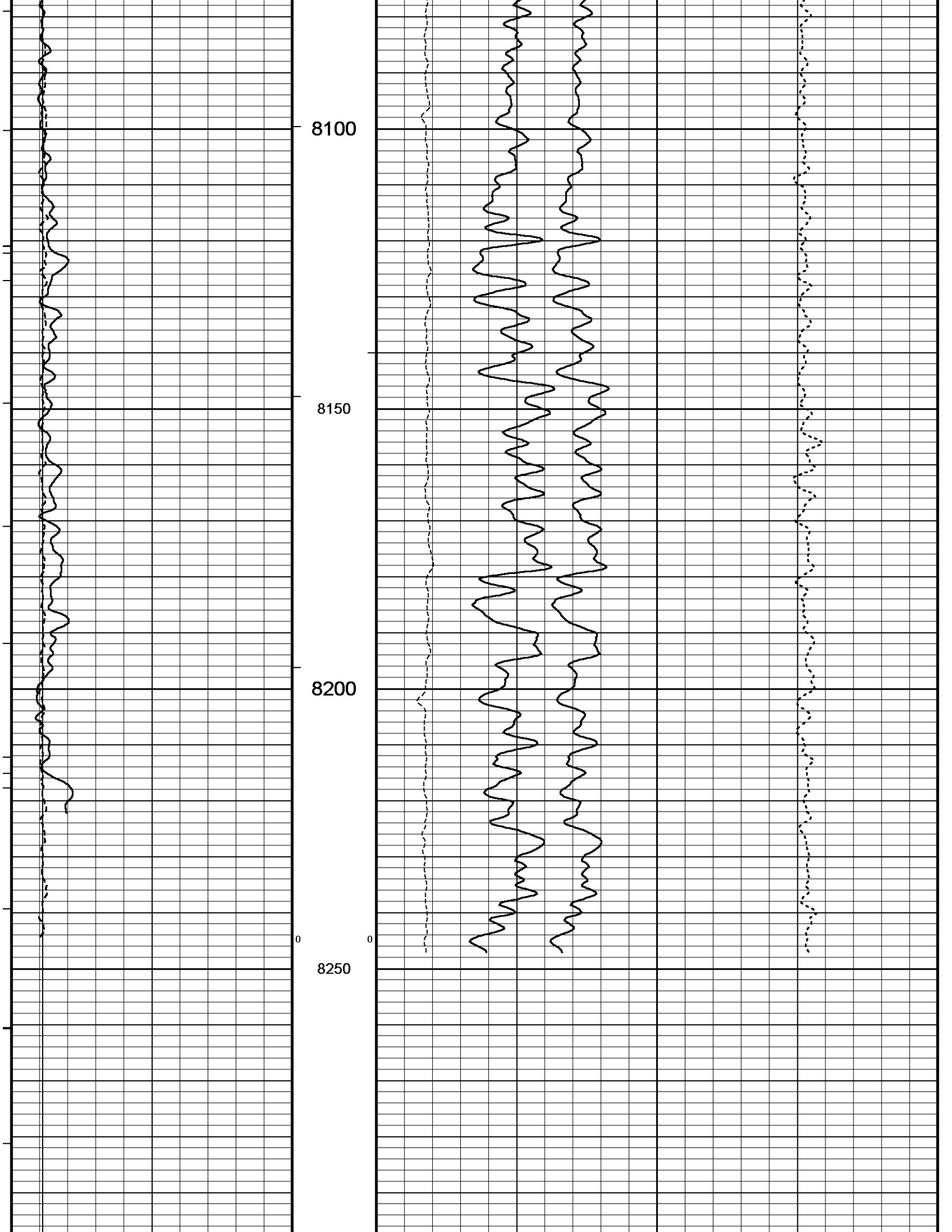


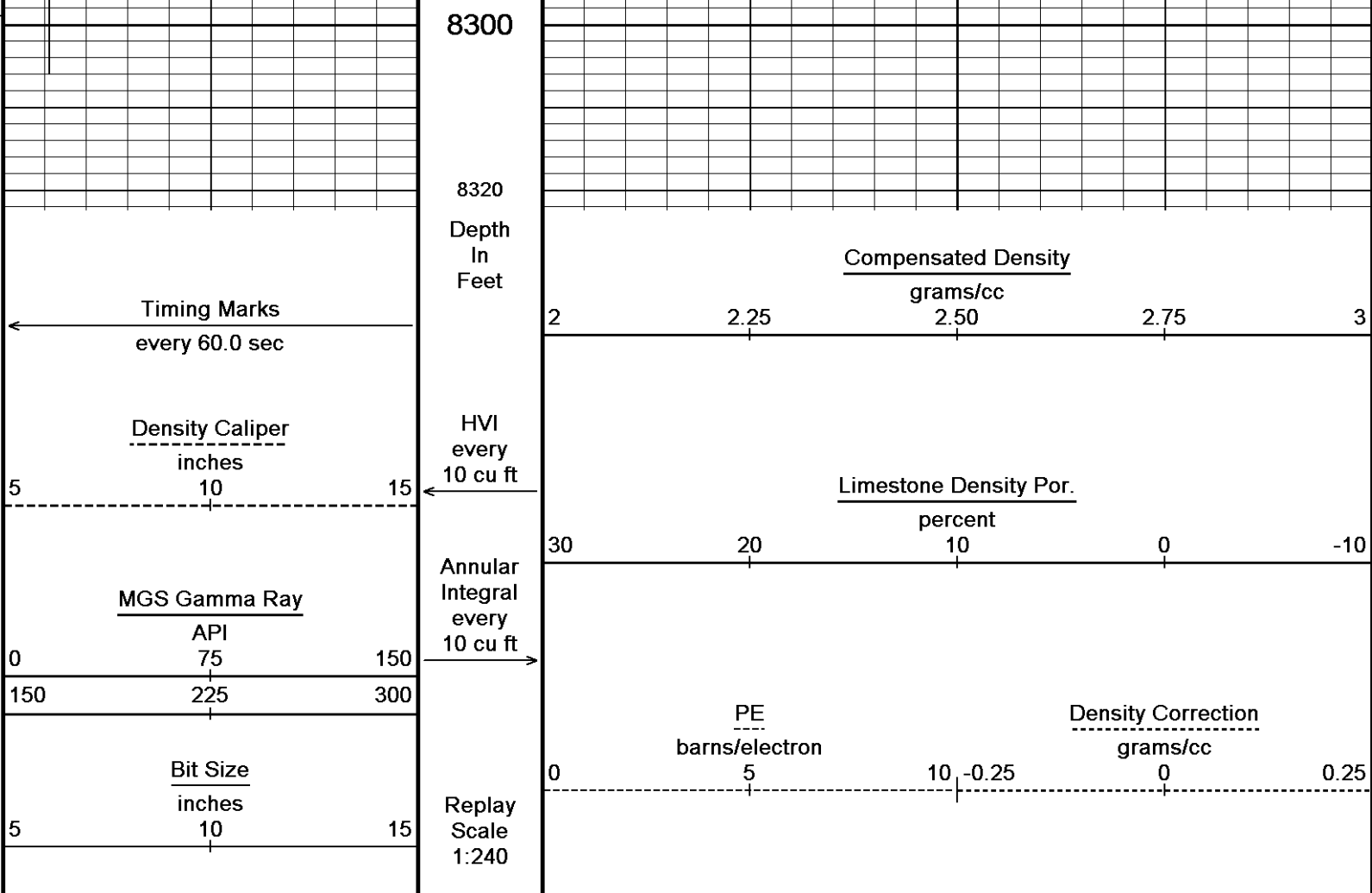












Depth Based Data - Maximum Sampling Increment 10.0cm  
 Plotted on 12-SEP-2012 18:32  
 Filename: C:\Data\Dorado E & PMMS158 Depthlog TC-CMI.dta  
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5 INCH BULK DENSITY DSC

### BEFORE SURVEY CALIBRATION

C:\Data\Dorado E & PMMS158 Depthlog TC-CMI.dta

General Constants All 000 Last Edited on 12-SEP-2012,17:43

General Parameters		
Mud Resistivity	2.460	ohm-metres
Mud Resistivity Temperature	77.000	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	Base Density Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0 Field Calibration on 27-APR-2009 11:57

Reading No	Measured	
1	15257.84	0.00
2	16706.18	410.00

Strain Gauge Constants MMS-E.B 158

Last Edited on

Atmospheric Pressure	14.70	psi
Serial Number	0	
Calibration Date	000000000000	
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
Pressure psia	Inc.	Dec.
	Inc.	Dec.
0.0	0.000	0.000
2000.0	0.000	0.000
4000.0	0.000	0.000
6000.0	0.000	0.000
8000.0	0.000	0.000
10000.0	0.000	0.000

MMS Parameters MMS-E.B 158

Last Edited on 12-SEP-2012 01:02

Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay	0.0	minutes
Caliper Closed On	Unknown	
Caliper Closed Delay	N/A	minutes
Sample Rate	1.00	seconds
Use Deep Sleep	No	
Delay Deep Sleep	N/A	
Deep Sleep Wake Time	N/A	minutes
Deep Sleep Wake on Temperature	N/A	
Deep Sleep Wake Temperature	N/A	degrees C
Deep Sleep Wake on Pressure	N/A	
Deep Sleep Wake Pressure	N/A	psi
MMI Pad Pressure	8.0	

Release Parameters

Pulse Duration Base Level	10.0	seconds
Pulse Duration Transition Time	60.0	seconds
Pulse Duration Status Pulse From	20.0	seconds
Pulse Duration Caliper Close From	145.0	seconds
Pulse Duration Caliper Open From	150.0	seconds
Pulse Duration Release Pulse From	215.0	seconds
Pulse Duration Release Pulse To	280.0	seconds
Pulse Release Duration	240.0	seconds
Pulse Discriminator Pressure Band	96.0	seconds
Pulse Pressure Discriminator	213.0	seconds
Use Negative Pulsing	No	
Good Status Reply Open Hole	0.0	seconds
Good Status Reply Cased Hole	20.0	seconds
Bad Status Reply	60.0	seconds
Status Pulse To	80.0	seconds
Caliper Close To	0.0	seconds
Caliper Open To	210.0	seconds

Configuration

MMS,MGS,MDN,MPD,MPD,MIM,MIE,MAI

High Resolution Temperature Constants MGS-C.J 133

Last Edited on

Pre-filter Length	11
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Gamma Calibration MGS-C.J 133

Field Calibration on 03-SEP-2012,15:51

	Measured	Calibrated (API)
Background	38	26
Calibrator (Gross)	1048	722
Calibrator (Net)	1010	696

Gamma Constants MGS-C.J 133

Last Edited on 12-SEP-2012,17:42

Gamma Calibrator Number		
Mud Density	1.02	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN-C.A 423

Base Calibration on 03-JUN-2012 17:50  
Field Check on 03-SEP-2012,15:50

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3350	100	3714	110
	33.500		33.764	

Field Calibrator at Base

	Calibrated (cps)	
Ratio	1130	1749
	0.646	

Field Check

	Calibrated (cps)	
Ratio	1130	1755
	0.644	

Neutron Constants MDN-C.A 423

Last Edited on 03-SEP-2012,15:49

Neutron Source Id		
Neutron Jig Number		
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	Constant Value	
Formation Pressure	1.80	kpsi
Temperature Source	MGS External Temperature	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	Constant Value	
Formation Fluid Salinity	140.00	kppm
Barite Mud Correction	Not Applied	

Accelerometer Parameters MIE-A.J 230

Date Of Last Accelerometer Calibration	11-SEP-2012,20:41		
	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.109690	-1.109392	-1.087017
Offset	0.005069	0.004308	0.003621

Accelerometer Constants MIE-A.J 230

Last Edited on 11-SEP-2012,20:40

Accelerometer Calibrator Number	000			
Accelerometer Temperature Characterisation				
X Accelerometer				
Serial Number	1050			
Calibration Date	25-Apr-2011			
Bias(g)	B0	B1	B2	B3
	0.00000e+000	-1.70214e-005	1.07323e-008	1.12542e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.70937e-004	3.09720e-007	1.08406e-009
Y Accelerometer				
Serial Number	1051			
Calibration Date	25-Apr-2011			
Bias(g)	B0	B1	B2	B3
	0.00000e+000	4.43984e-006	-2.75303e-008	2.47287e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.53744e-004	3.58624e-007	1.11251e-009

Z Accelerometer

Serial Number	1049			
Calibration Date	25-Apr-2011			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.78865e-005	-5.43849e-008	3.47002e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.76777e-004	3.16407e-007	1.43459e-009

Navigation Constants MIE-A.J 230 Last Edited on

Magnetic Declination 0.00 degrees East

Imager Pad Check MIE-A.J 230 Field Check on

Pad 1	Pad Not Tested	Pad 5	Pad Not Tested
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested

Compact Micro Imager Constants MIE-A.J 230 Last Edited on 11-SEP-2012,20:41

Sonde Configuration	Imager Mode	degrees
Arm-Pad Kit	Normal Pads (12.25 in)	
Centre Pad 1 Rotational Offset	0.00	
Image/Borehole Ovality Reference	Azimuth of Pad 1	degrees
Non Active Buttons	Omit	feet
Search Angle	0.00	feet
Correlation Interval	3.28	mAmp
Correlation Step	1.64	mAmp
Current Offset	0.0000	
Squasher Start	N/A	
Image Processing	Enabled	

Caliper Calibration MIE-A.J 230 Base Calibration on 21-NOV-2011 12:53  
Field Calibration on

Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	27019	26748	5.96		
2	37620	37049	7.97		
3	47195	46738	9.84		
4	58917	58501	11.91		
5	0	0	0.00		
Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	25158	24956	25125	25484	5.96
2	34223	33744	33876	34474	7.97
3	42481	41822	41997	42779	9.84
4	52463	52007	51986	52627	11.91
5	0	0	0	0	0.00
Field Calibration					
	Measured	Measured	Actual		
	0	0	0		
	0.00	0.00	0.00		
	Measured	Measured	Measured	Measured	Actual
	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00

Caliper Constants MIE-A.J 230 Last Edited on

Caliper Difference for BRKT 3.000 mm

Magnetometer Parameters MIE-A.J 230

Date Of Last Magnetometer Calibration	21-NOV-2011,12:41		
	X Magnetometer	Y Magnetometer	Z Magnetometer
Slope	-1.000000	-1.004357	-0.999282
Offset	0.010323	-0.015586	0.012647

Magnetometer Constants MIE-A.J 230 Last Edited on

Magnetometer Calibrator Number 000

Base Calibration

Test Loop Calibration

Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	16.7	473.5	9.3	966.2
2	5.6	368.9	7.6	821.4
3	3.3	256.4	5.2	566.0
4	1.8	133.4	2.6	279.2

Array Temperature 71.8 Deg F

Channel Base Check (mmho/m) Field Check (mmho/m)

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	13.6	3831.2
2	0.0	0.0	31.1	3649.6
3	0.0	0.0	28.1	3082.5
4	0.0	0.0	19.0	2068.2
Deep	0.0	0.0	15.8	1911.8
Medium	0.0	0.0	41.9	4142.5
Shallow	0.0	0.0	48.4	5534.9

Array Temperature 0.0 90.4 Deg F

Induction Constants MAI-B.J 394

Last Edited on 12-SEP-2012,17:41

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

0.0030 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 394

Field Calibration on 08-MAR-2012 12:02

	Measured	Calibrated(Deg F)
Lower	10.00	50.00
Upper	100.00	212.00

High Resolution Temperature Constants MAI-B.J 394

Last Edited on

## Caliper Calibration MPD-C.J 395

Base Calibration on 31-AUG-2012 14:46

Field Calibration on

## Base Calibration

Reading No	Measured	Calibrator Size (in)
1	15729	3.99
2	25280	5.97
3	35136	7.99
4	44443	9.86
5	55472	11.93
6	N/A	N/A

## Field Calibration

Measured Caliper (in)	Actual Caliper (in)
0.00	0.00

## Photo Density Calibration MPD-C.J 395

Base Calibration on 10-SEP-2012 16:04

Field Check on

## Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	57768	27896	60364	31945
Reference 2	23681	2724	25079	2547

## Field Check at Base

1235.8 1484.9

## Field Check

0.0 0.0

## PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	226	1106		
Reference 1	26774	57552	0.470	0.399
Reference 2	7072	23542	0.305	0.273

## Field Check at Base

226.2 1106.0

## Field Check

0.0 0.0

## Density Constants MPD-C.J 395

Last Edited on 12-SEP-2012,17:42

## 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

1.02 gm/cc

Mud Density Z/A Multiplier

1.11

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

Hybrid

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

# DOWNHOLE EQUIPMENT

C:\Data\Dorado E & P\MMMS158 Depthlog TC-CMI.dta

SRT  
MLK-A 1 LG: 4.87 ft WT: 30.9 lb OD: 2.24 in

Empty Battery  
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

Empty Battery  
MLK-A 3 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

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

MBS-F.A 200v Compact Battery Sub  
MBS-F.A 151 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B  
MMS-E.B 158 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.  
MTI-B.A 63 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma  
MGS-C.J 133 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint  
SKJ-E.B 471 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor  
SHA-J.A 450 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub  
MIS-D.A 310 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron  
MDN-C.A 423 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper  
MPD-C.J 395 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub  
MIS-D.A 609 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor  
SHA-J.A 454 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

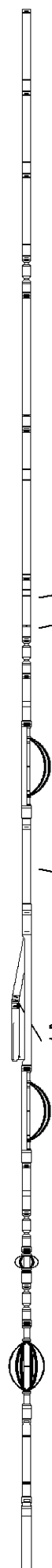
SKJ-E.B Compact Knuckle Joint  
SKJ-E.B 456 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub  
MIS-E.B 572 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint  
SKJ-E.B 469 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub  
MIS-A.A 77 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section  
MIM-A.A 157 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in



84.74 ft GRGM - MGS Gamma Ray  
82.75 ft GSXT - MGS External Temperature

69.04 ft NPRL - Limestone Neutron Por.

61.79 ft CLDC - Density Caliper  
59.87 ft DPRL - Limestone Density Por.  
59.87 ft DEN - Compensated Density  
59.87 ft DCOR - Density Correction  
59.80 ft PDPE - PE

Compact MMI Electrode Section  
 MIE-A.J 230 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

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

SKJ-E.B Compact Knuckle Joint  
 SKJ-E.B 478 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Induction  
 MAI-B.J 394 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 144.96 ft Weight: 919.3 lb



- 3.34 ft CTAS - Array Ind. Six Cond Ct
  - 3.34 ft R40S - Array Ind. Six Res 40
  - 3.34 ft R30S - Array Ind. Six Res 30
  - 3.34 ft R20S - Array Ind. Six Res 20
  - 3.34 ft R60S - Array Ind. Six Res 60
  - 3.34 ft R85S - Array Ind. Six Res 85
  - 3.34 ft RTAS - Array Ind. Six Res Rt
  - Tool Zero (0.13ft from bottom)
- All measurements relative to tool zero.

COMPANY	DORADO E&P PARTNERS, LLC.
WELL	PREISSER 25-9-6-1H
FIELD	WILDCAT-MISSISSIPPIAN
PROVINCE/COUNTY	RENO
COUNTRY/STATE	USA / KANSAS

Elevation Kelly Bushing	1733.00	feet	First Reading	8248.00	feet
Elevation Drill Floor	1733.00	feet	Depth Driller	8350.00	feet
Elevation Ground Level	1721.00	feet	Depth Logger	8306.00	feet



**Weatherford®**

CML MESSENGER SHUTTLE  
 COMPENSATED PHOTO-DENSITY  
 COMPENSATED NEUTRON LOG