



Weatherford

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

COMPANY

SANDRIDGE ENERGY

WELL

MILLERSHASKI 2629 1-15H

FIELD

INGALLS SOUTH

PROVINCE/COUNTY

GRAY

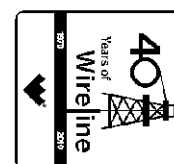
COUNTRY/STATE

USA / KANSAS

LOCATION

SHL: 220' FSL & 450' FWL

BHL: 330' FNL & 450' FWL



SEC TWP RGE Other Services

15 26S 29W MAI

API Number 15-069-20375-01

CMI

Permit Number

Permanent Datum G.L., Elevation 2741 feet

Log Measured From DF

Drilling Measured From D.F. @ 19 FEET

Elevations: feet
KB 2760.00
DF 2760.00
GL 2741.00

Date 29-JUN-2012

Run Number ONE

Depth Driller 9346.00 feet

Depth Logger 9346.00 feet

First Reading 9260.00 feet

Last Reading 1500.00 feet

Casing Driller 5429.00 feet

Casing Logger 5429.00 feet

Bit Size 6.125 inches

Hole Fluid Type WATER

Density / Viscosity 8.80 lb/USg 33.00 CP

PH / Fluid Loss 8.00 16.00 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.70 @ 96.0 ohm-m

Rmf @ Measured Temp 0.56 @ 96.0 ohm-m

Rmc @ Measured Temp 0.84 @ 96.0 ohm-m

Source Rmf / Rmc CALC CALC

Rm @ BHT 0.54 @ 124.0 ohm-m

Time Since Circulation 0 HOURS

Max Recorded Temp 124.00 deg F

Equipment Name COMPACT

Equipment / Base 18006 OKC

Recorded By D. ROWELL

Witnessed By O. ESPARZA

S.O.# / AFE 3535166 / DC12121

BOREHOLE RECORD

Last Edited: 29-JUN-2012 21:51

Bit Size inches	Depth From feet	Depth To feet
6.125	5429.00	9346.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1580.00	36.00
INTERMED	7.000	0.00	5429.00	26.00

REMARKS

WLS SOFTWARE VERSION 12.02.4401 USED.
200V COMPACT MEMORY LOGGING - SHUTTLE MESSENGER SYSTEM

HARDWARE: BHA: SMS, SLS, SSS, 3 JOINTS OF 3.5" IF GARAGE PIPE, SLL, SUL, 3.5" DP, SFV, 3.5" DP

MPD: ECCENTRALISED SINGLE MIS.D, SHA, SKJ (BOTTOM)
MDN: SKJ, SHA, ECCENTRALISED DOUBLE MIS.D (TOP)
MAI: 0.5" STANDOFF- MIS.E INLINE STANDOFF (TOP), INDUCTION STANDOFF ASSEMBLY (BOTTOM)
CMI: FULLY CENTRALIZED

DEPTH MEASURED USING ADVANTAGE RIG DEPTH SYSTEM CORRECTED TO PIPE STRAP. VERIFIED WITH MWD LOGS.

TOOLS DEPLOYED WITH END OF BHA AT : 9219FT.
AFTER DEPLOYMENT LOGGING TOOL WAS AT: 9322FT.

4.5 INCH PRODUCTION CASING WAS USED TO CALCULATE ANNULAR HOLE VOLUMES

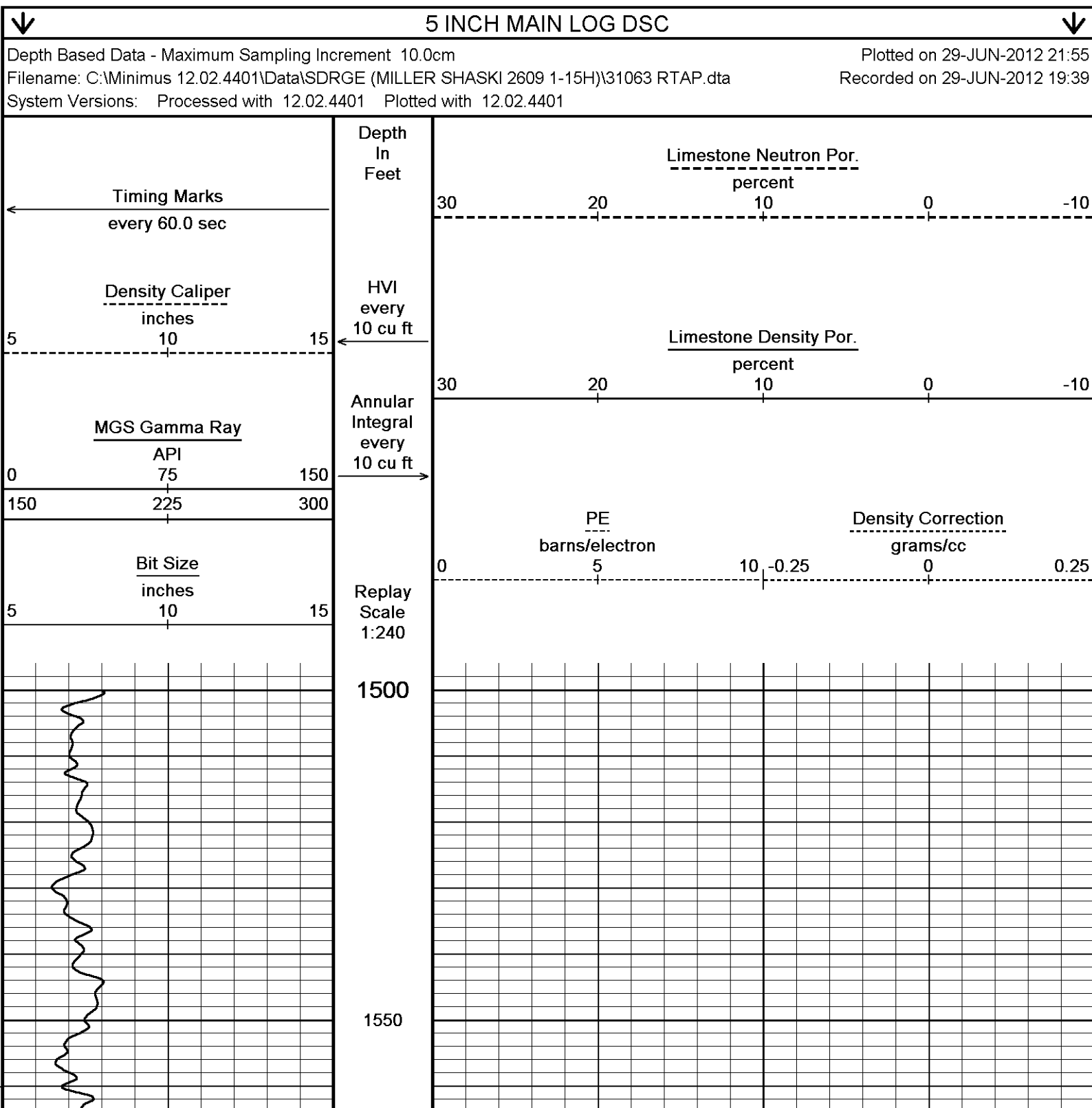
4.5 INCH PRODUCTION CASING WAS USED TO CALCULATE ANNULAR HOLE VOLUMES

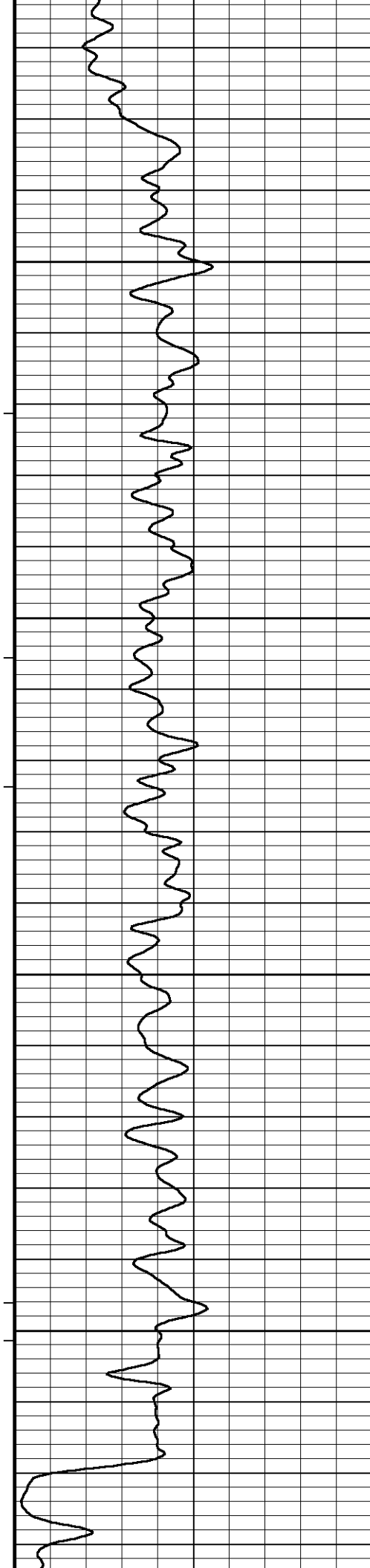
TOTAL HOLE VOLUME FROM TD TO CASING = 810 CU.FT.
ANNULAR VOLUME WITH X.X INCH PRODUCTION CASING = 380 CU.FT.

CHOLORIDES 11000 Mg/L

OPERATORS: P. BURGER, B. BALLINGER
SERVICE ORDER # 3535166
RIG: LARIAT 3

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.



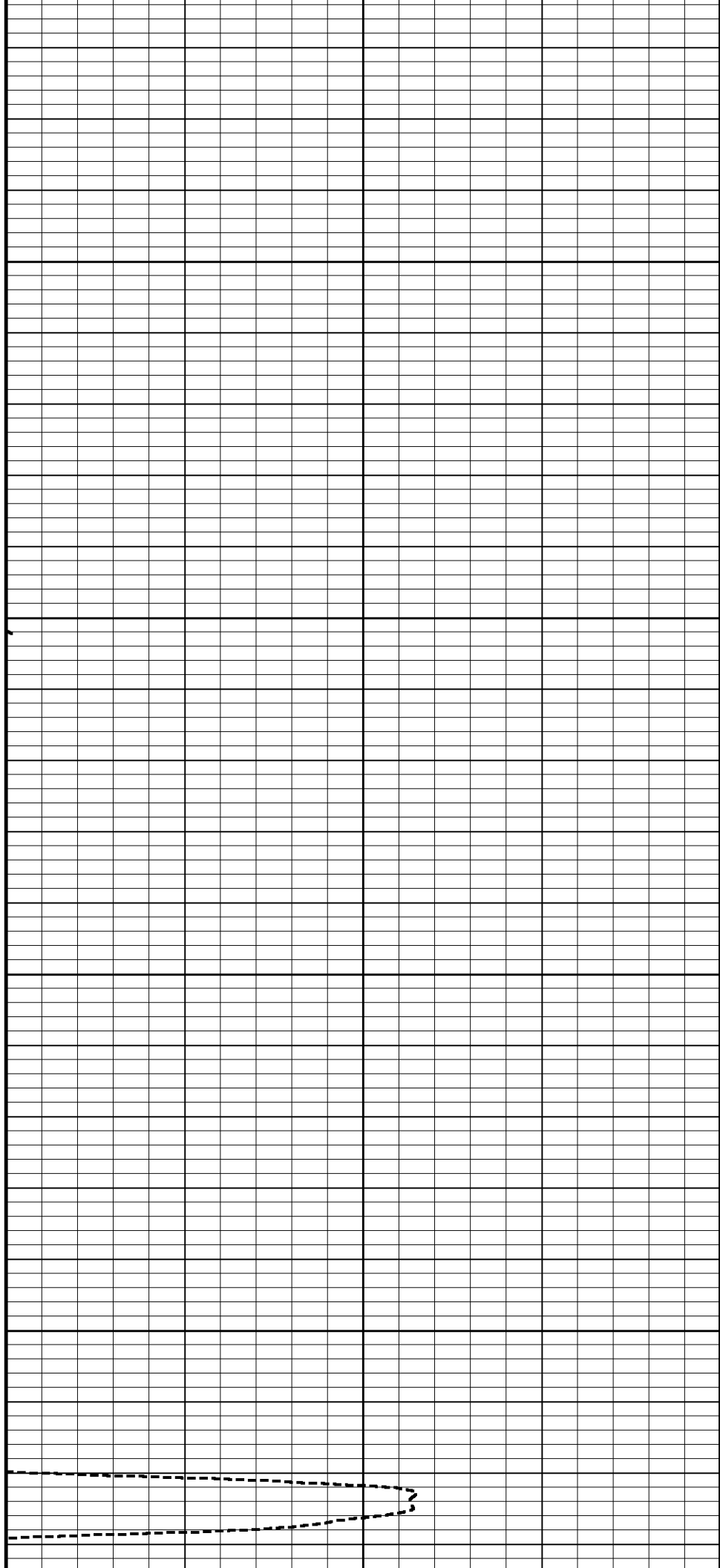


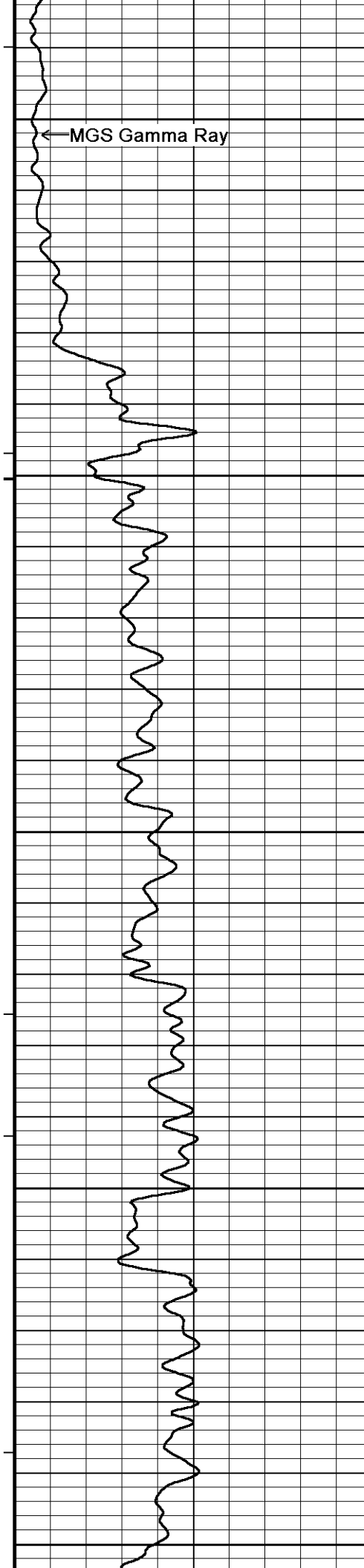
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1650

1700

1750





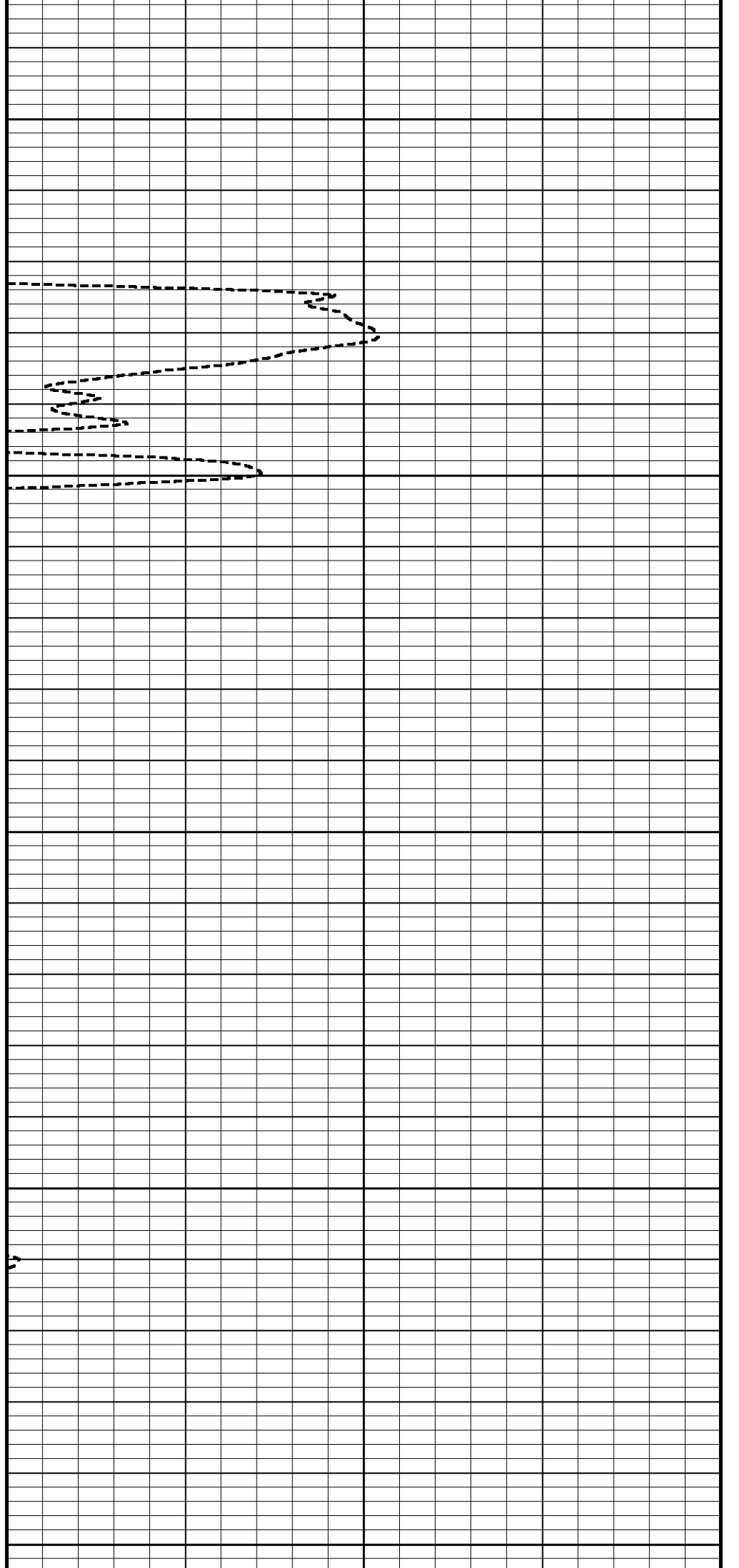
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1850

1900

1950

2000





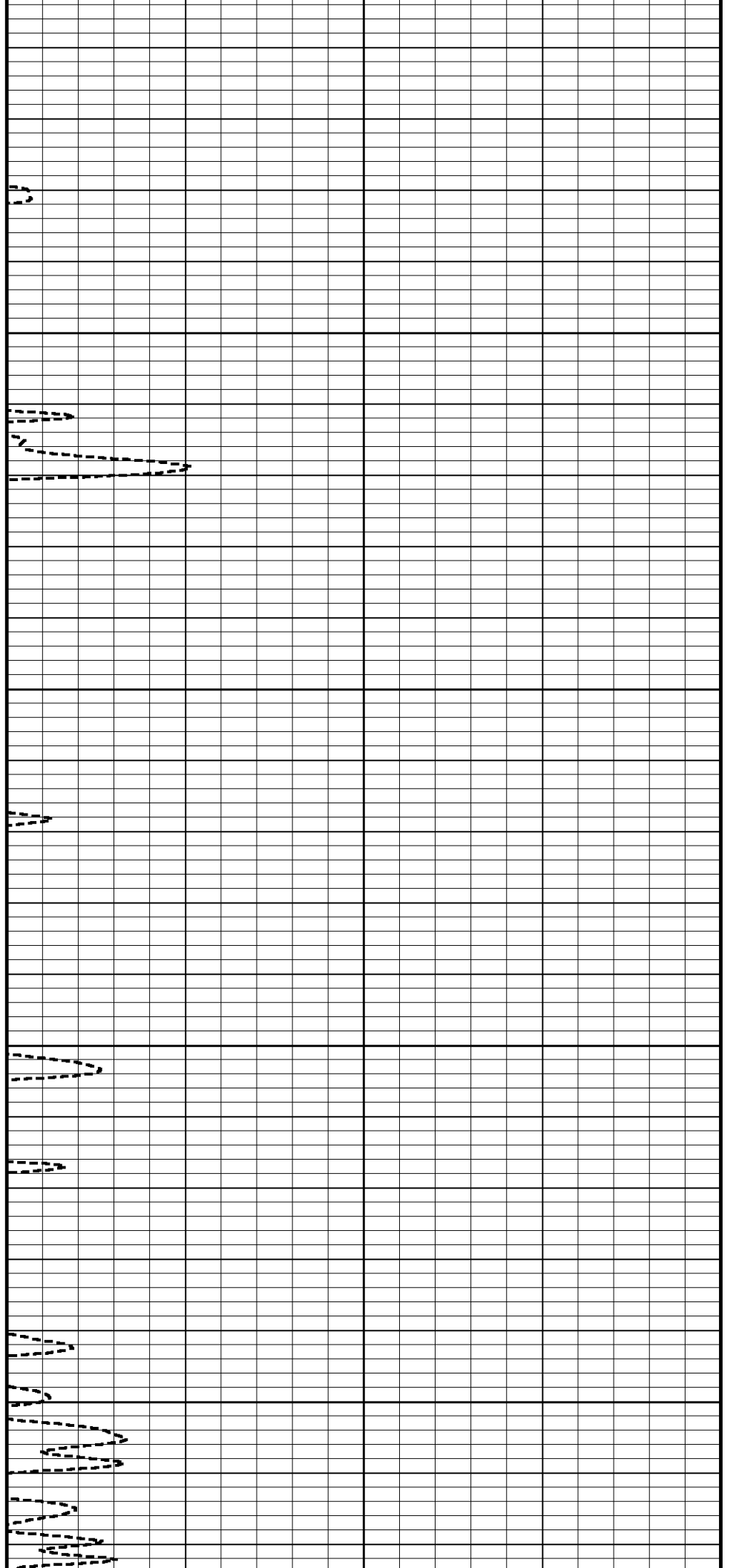
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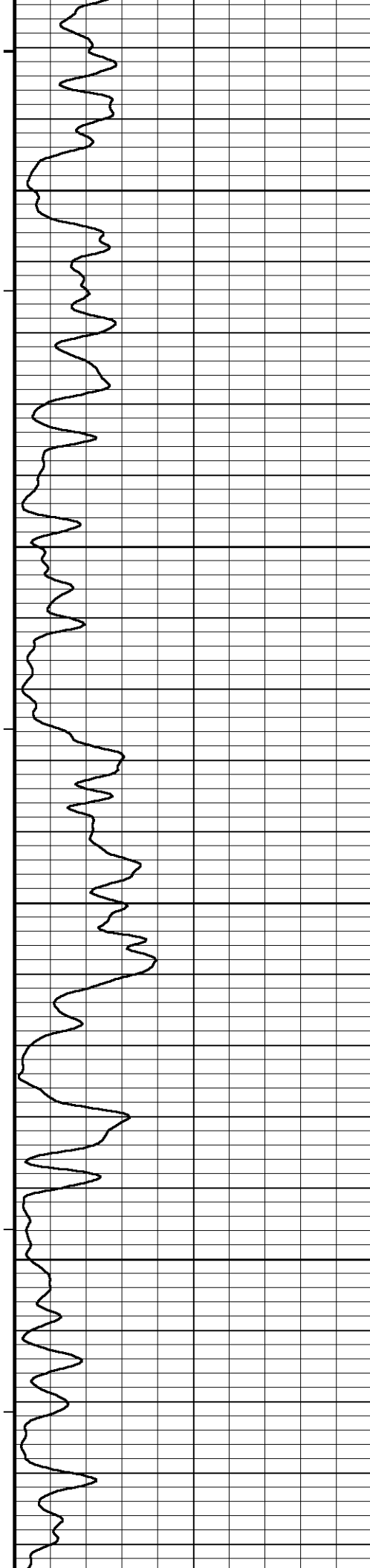
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2150

2200

MGS Gamma Ray



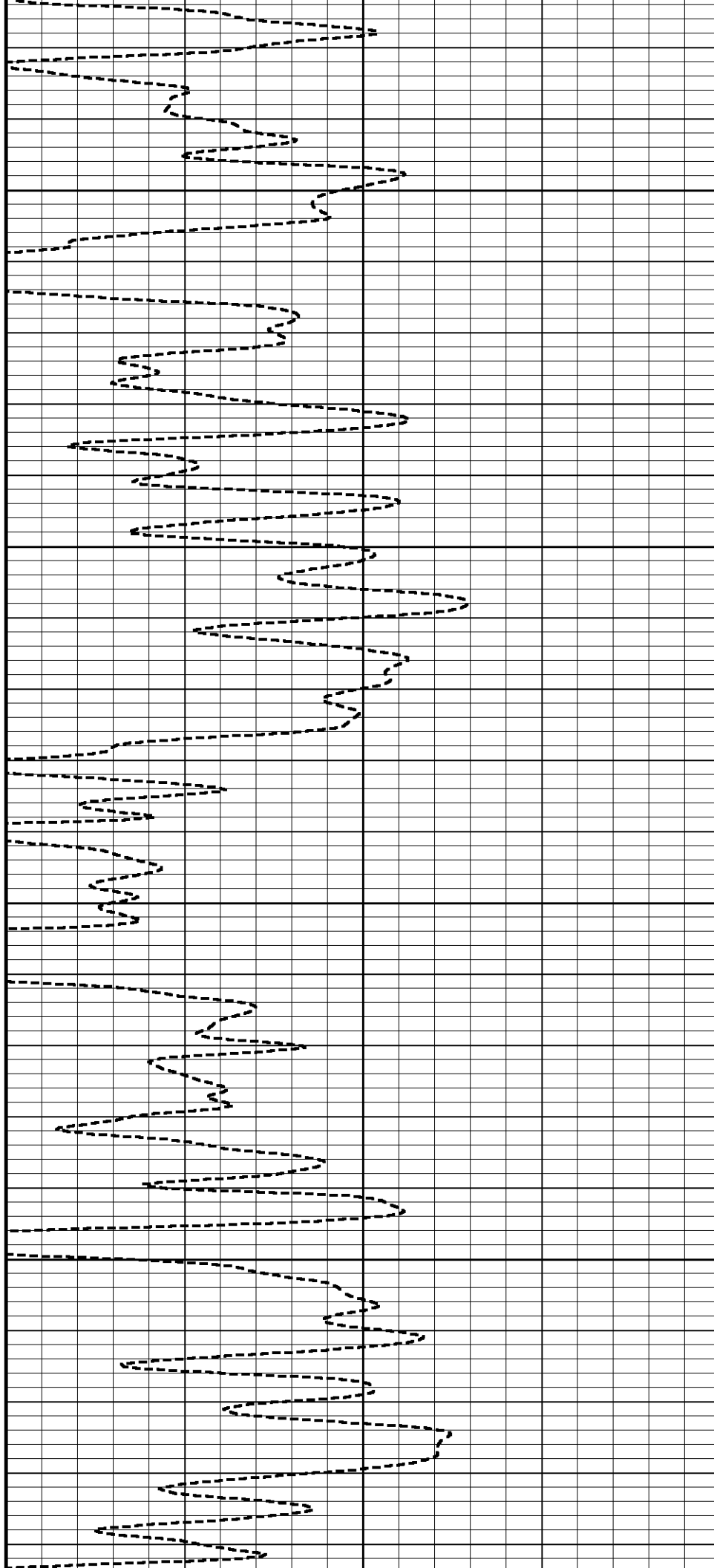


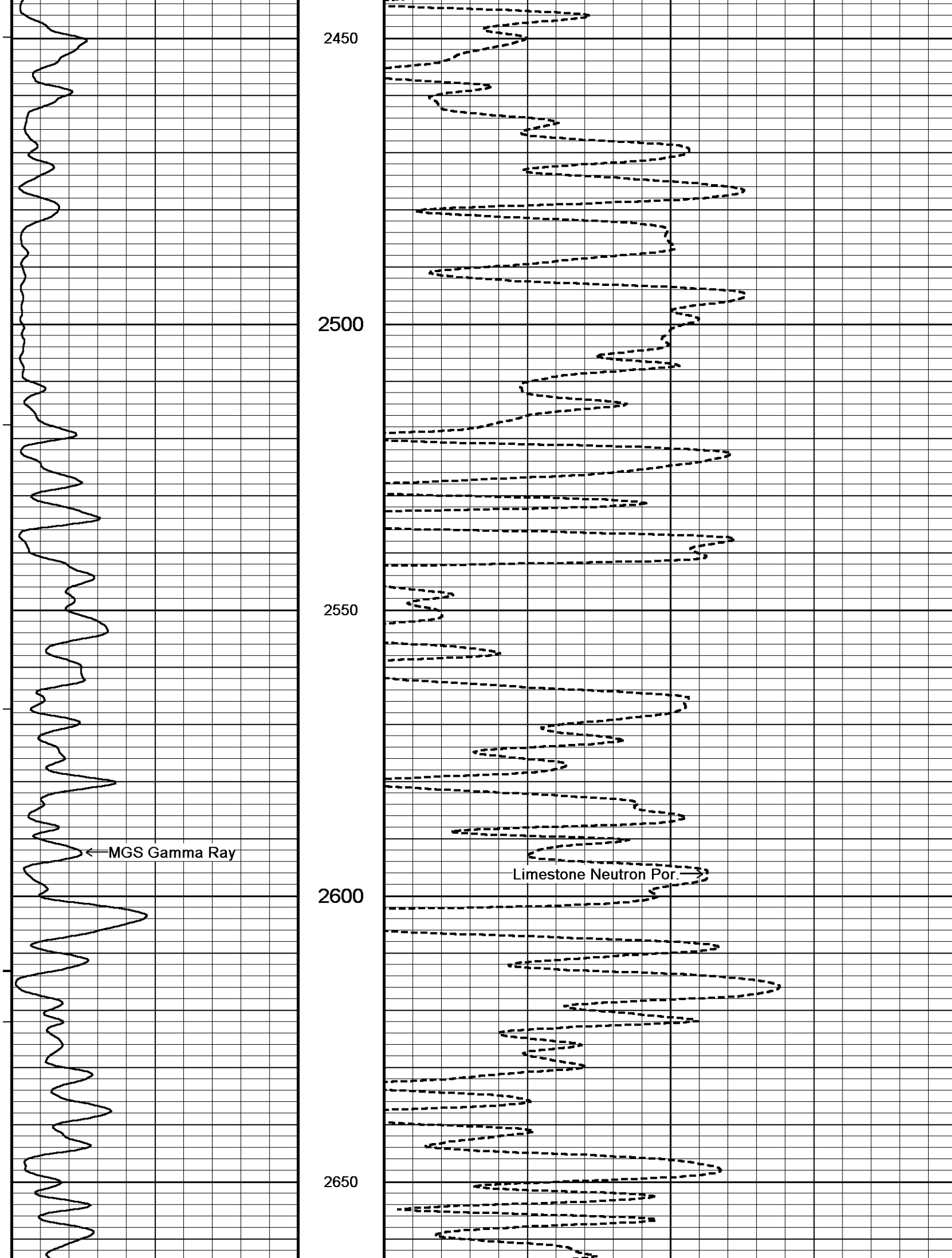
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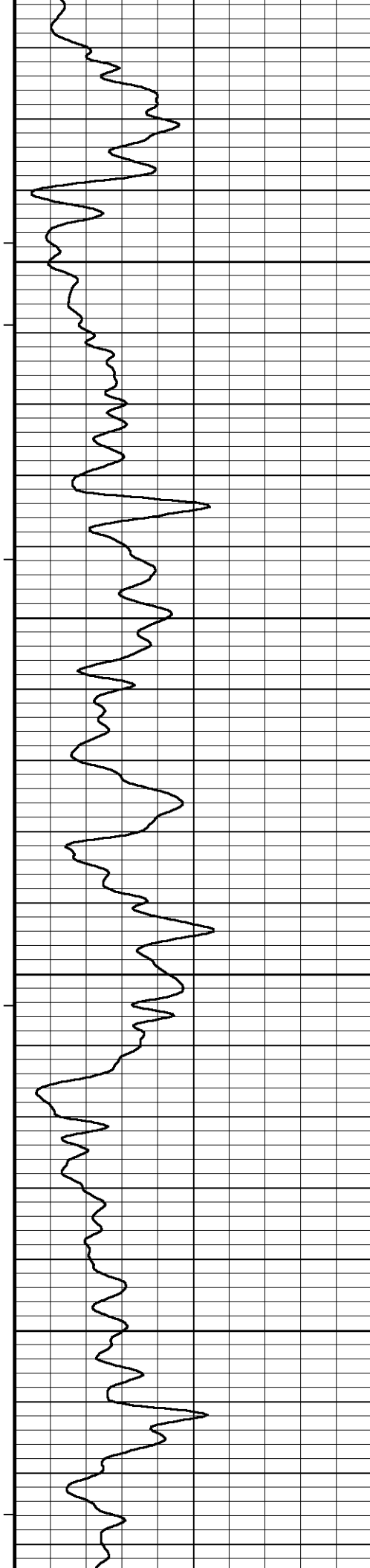
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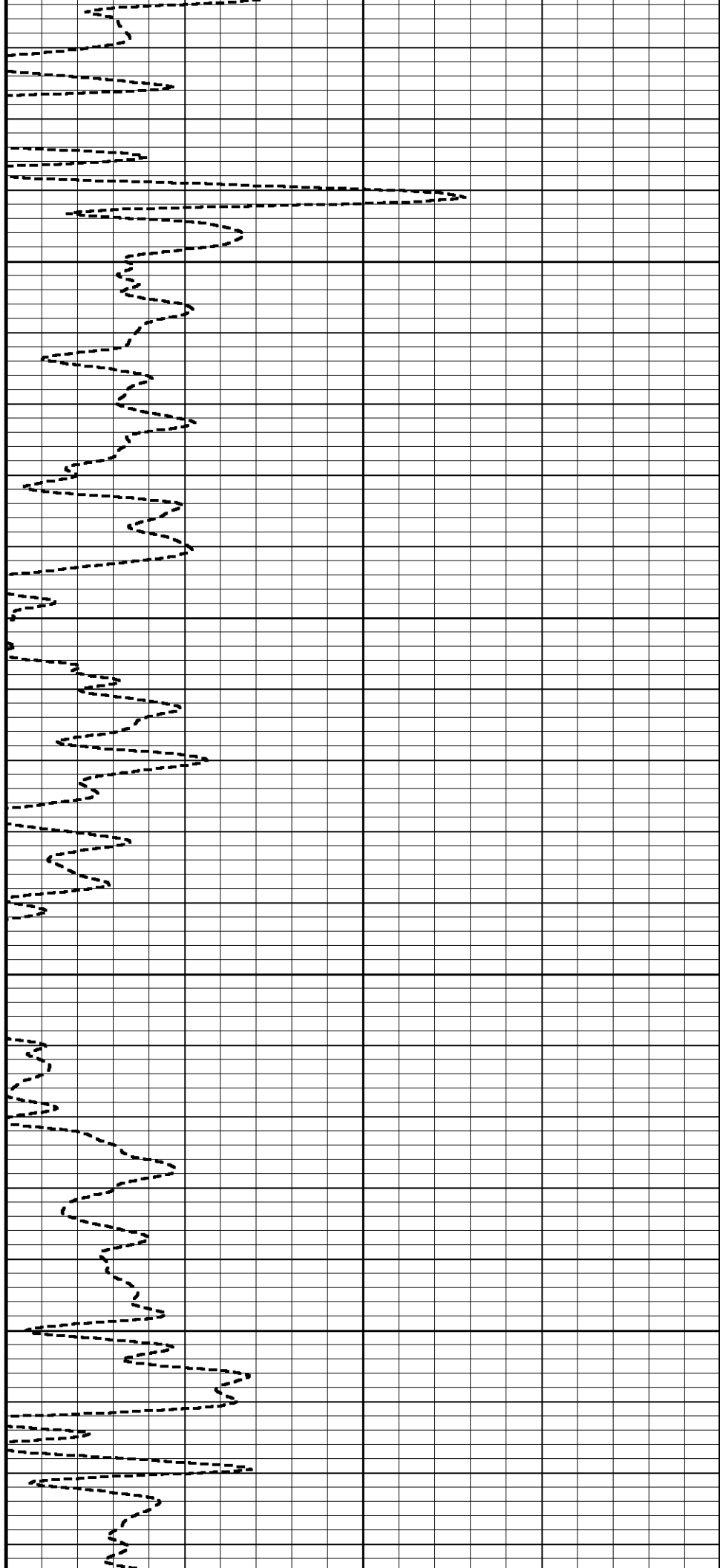


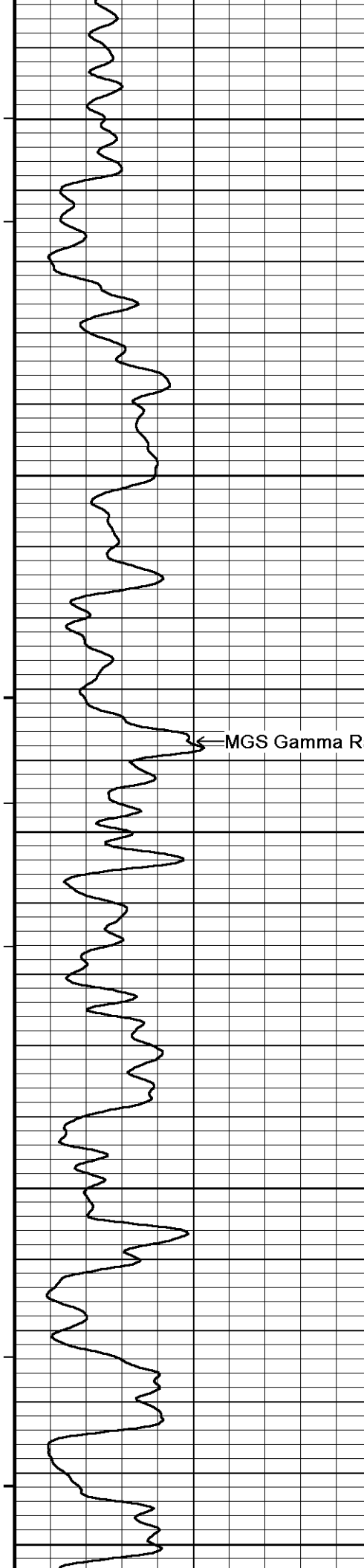
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2850





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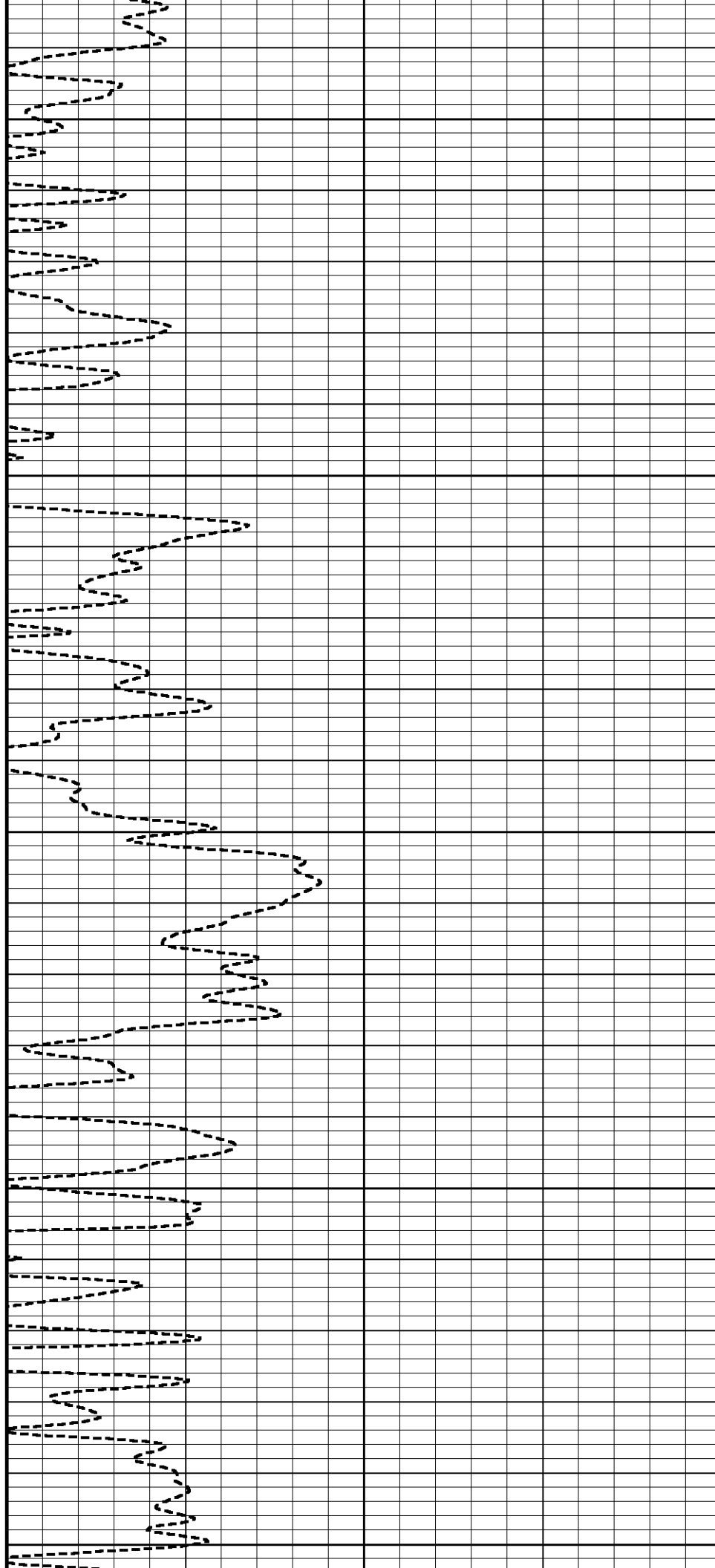
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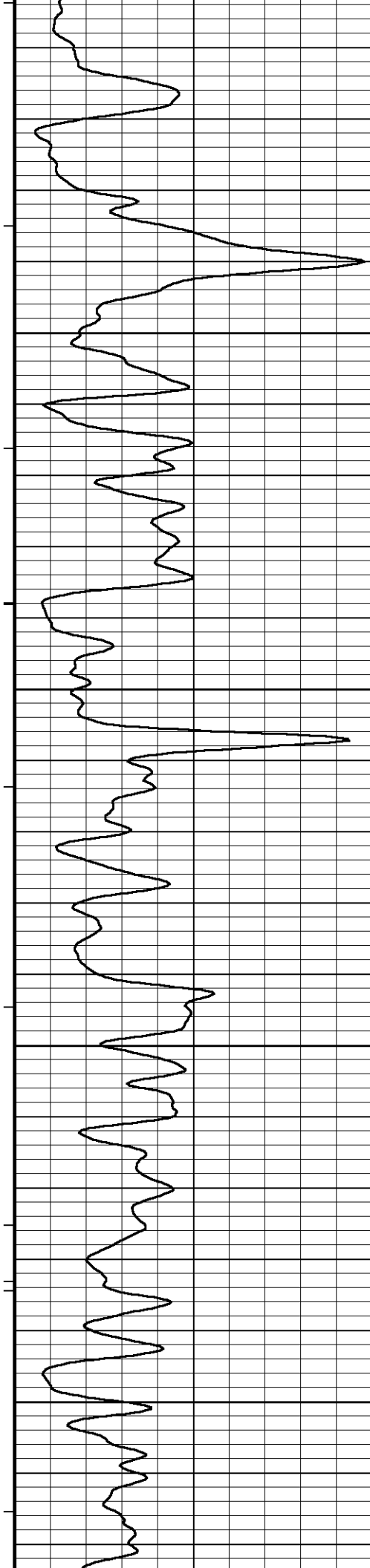
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3050

3100

← MGS Gamma Ray



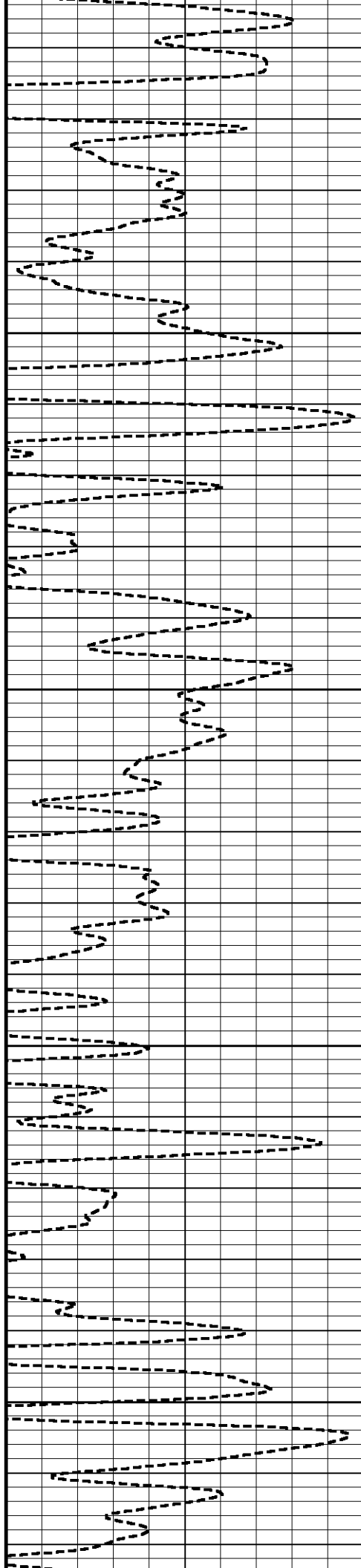


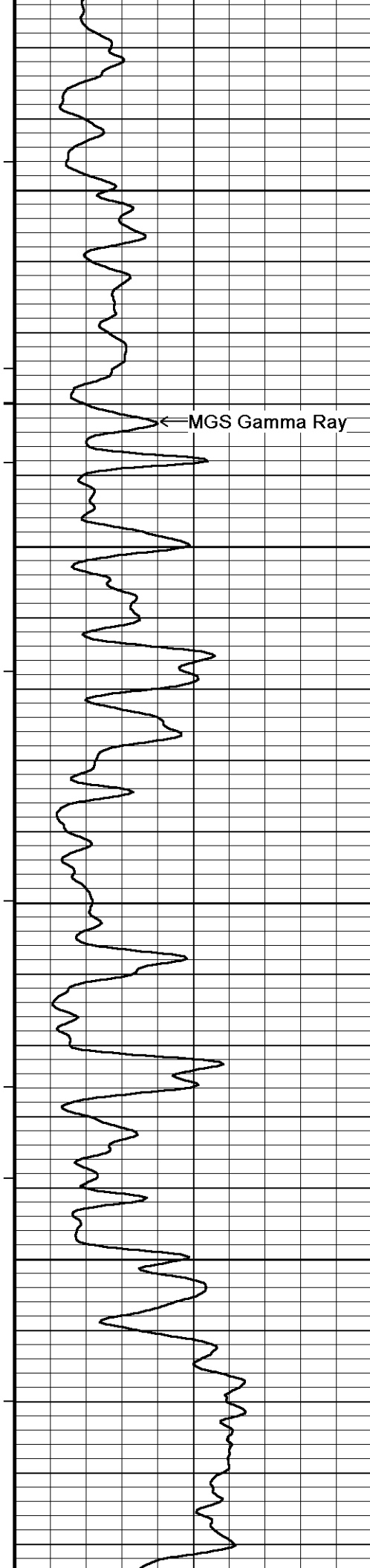
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3300





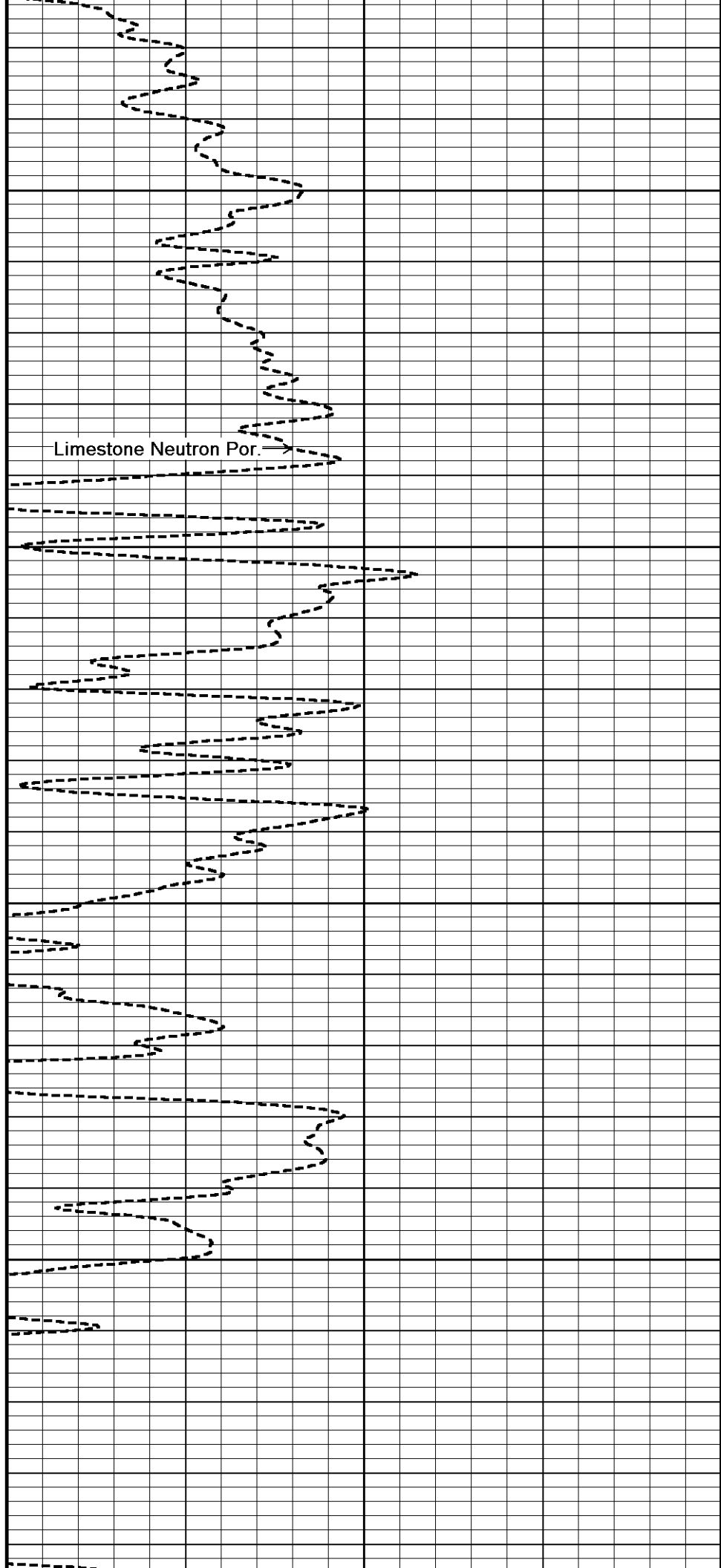
← MGS Gamma Ray

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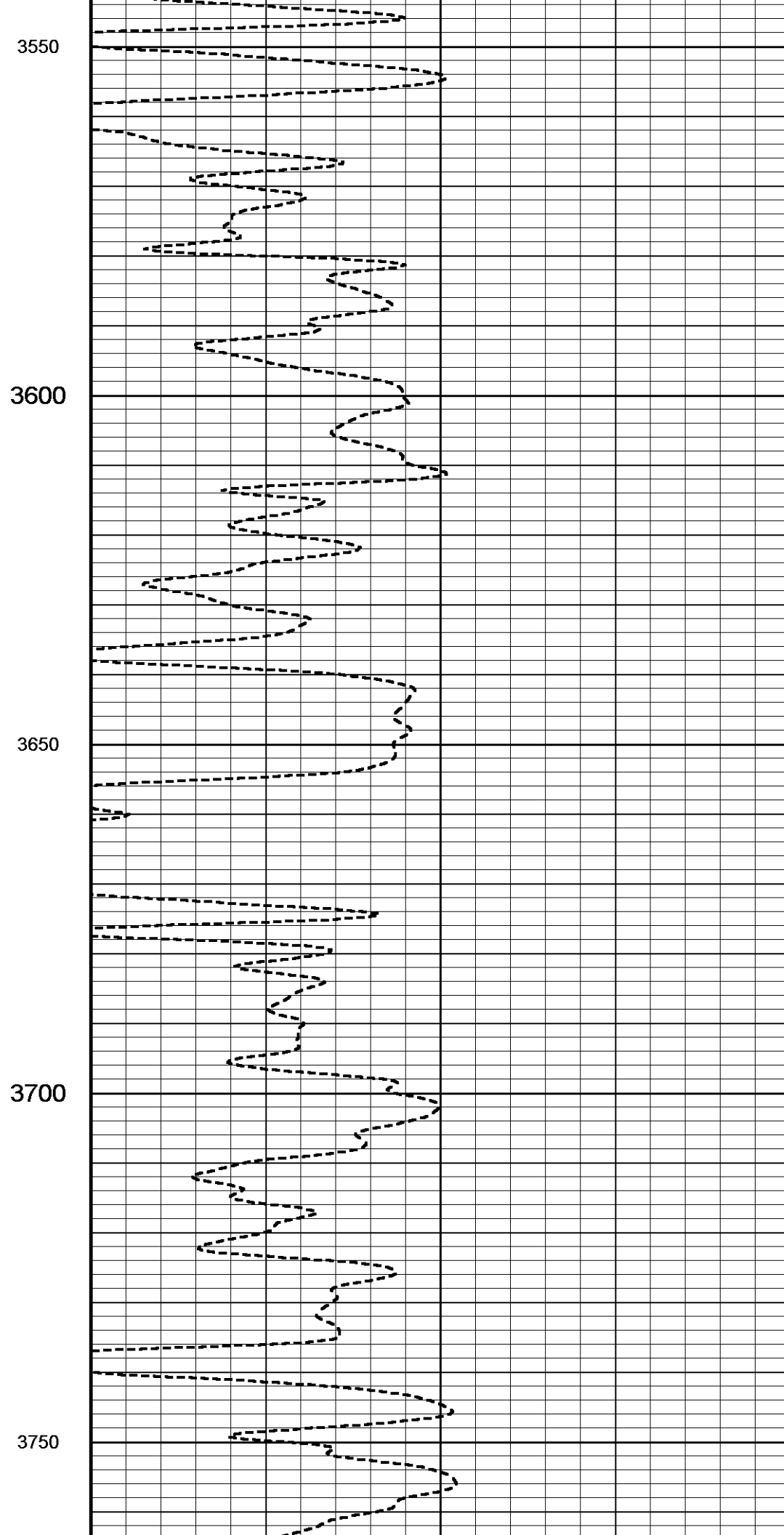
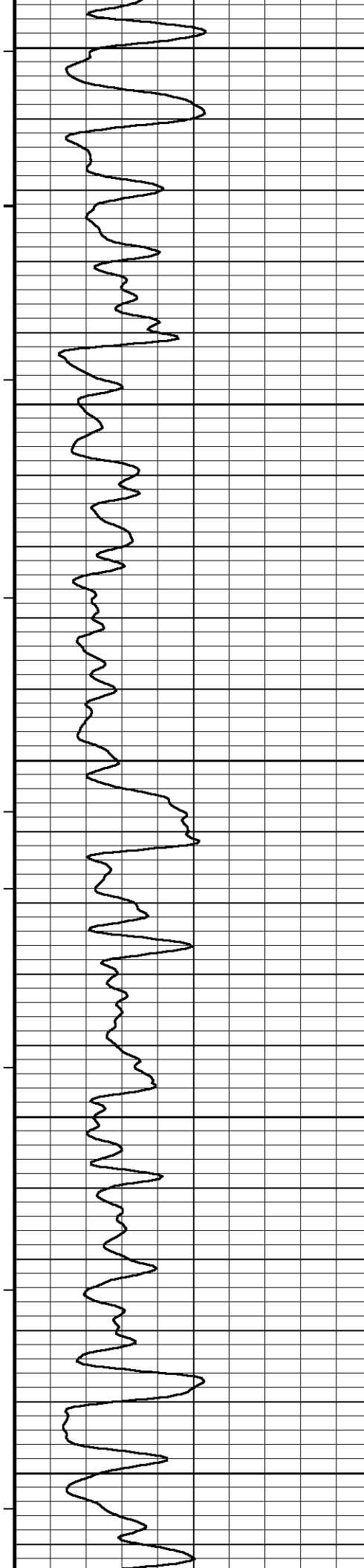
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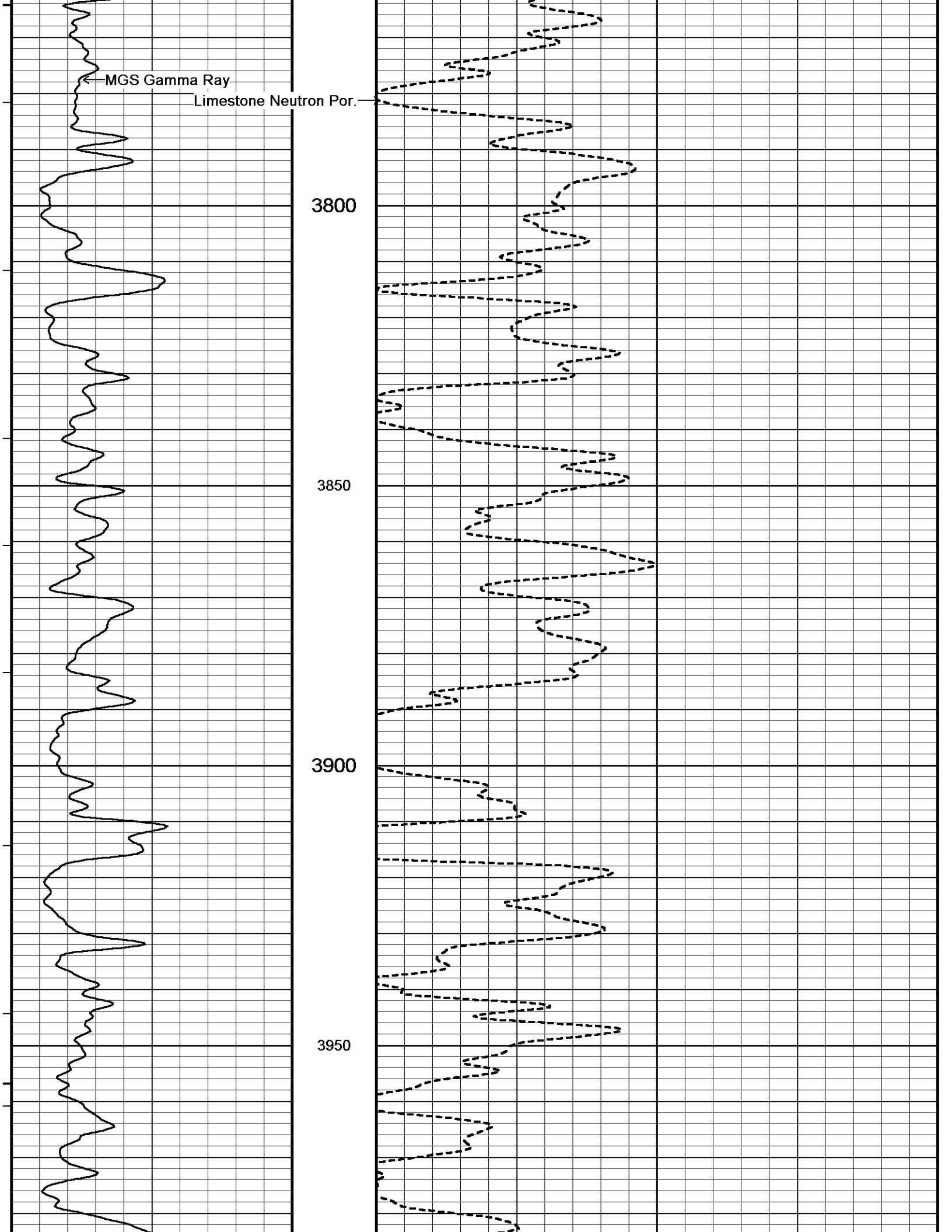
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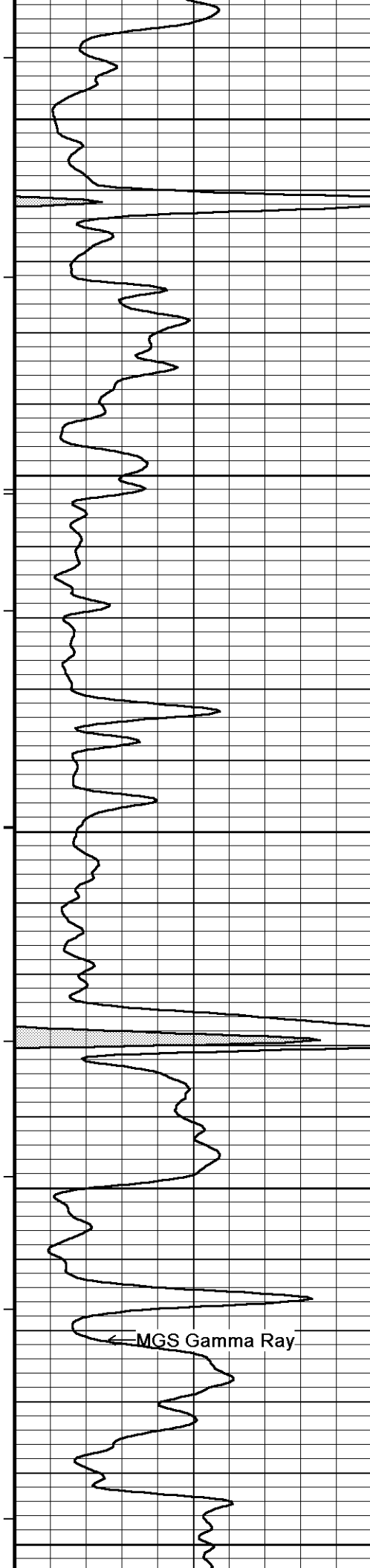
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Limestone Neutron Por. →







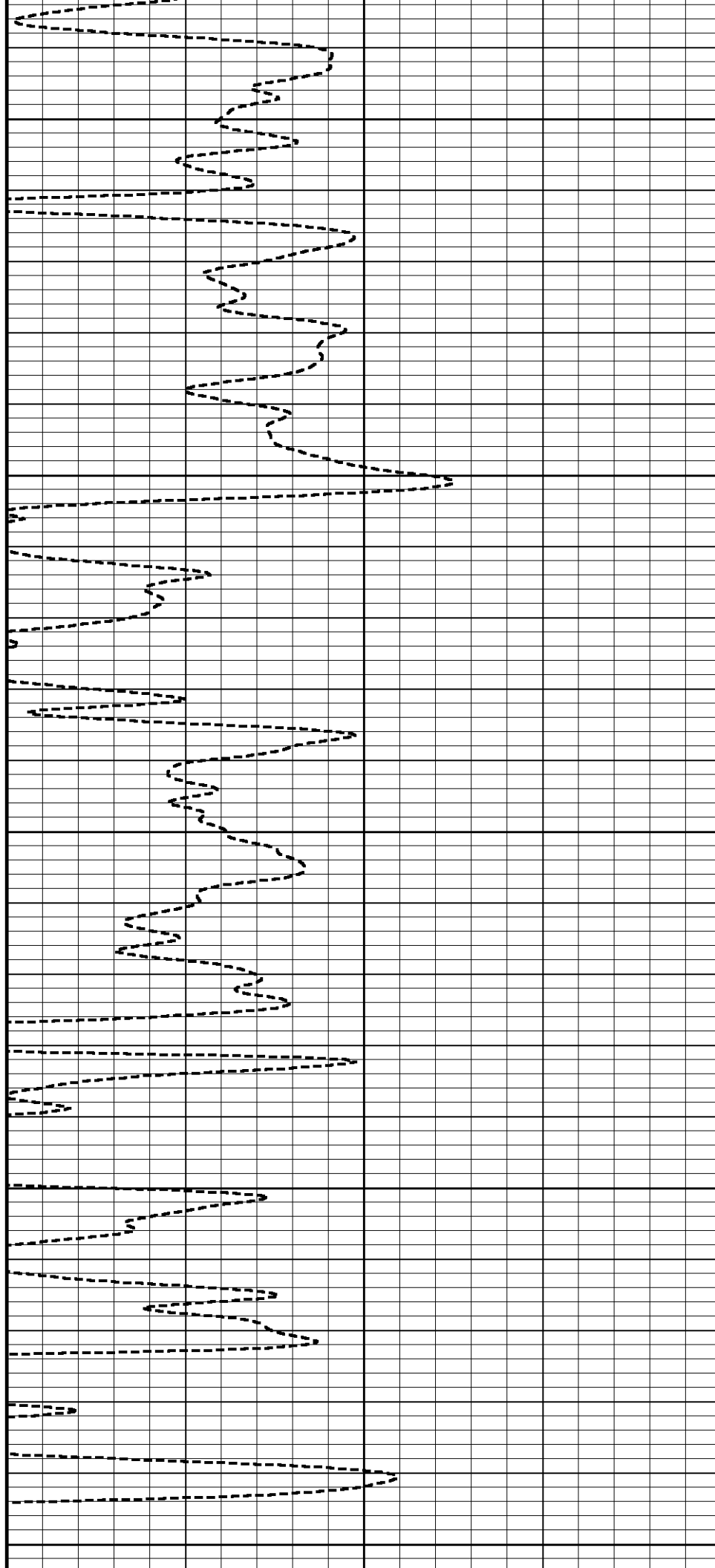
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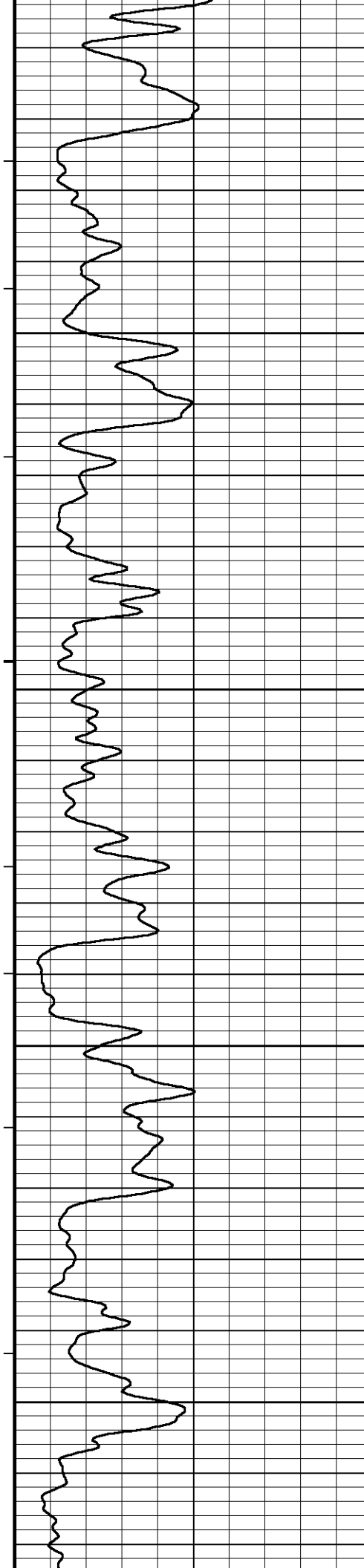
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← MGS Gamma Ray

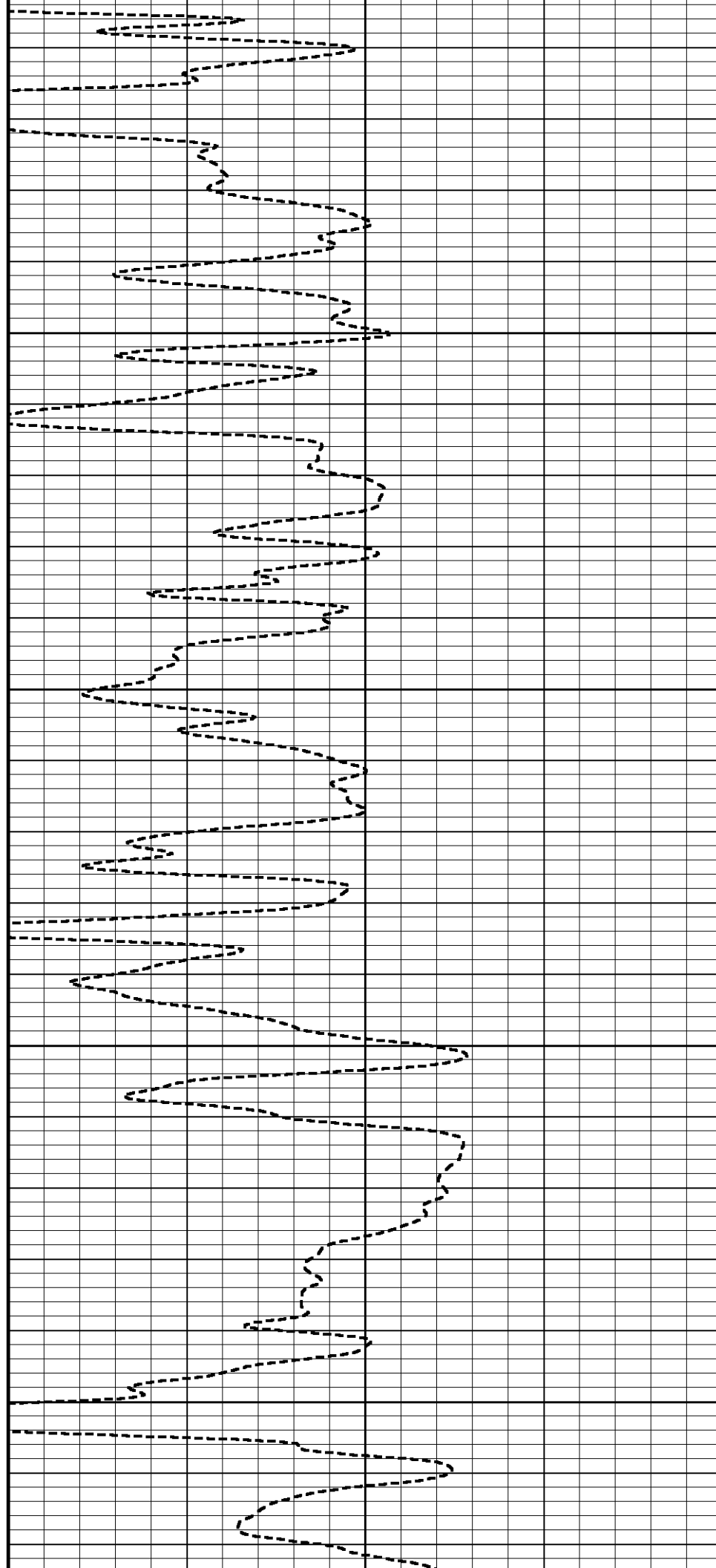


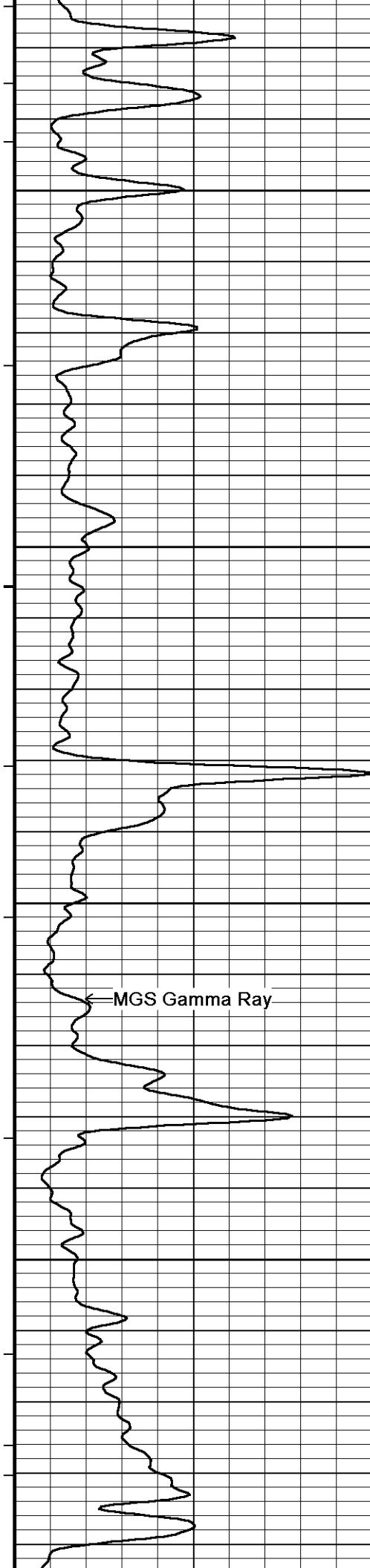
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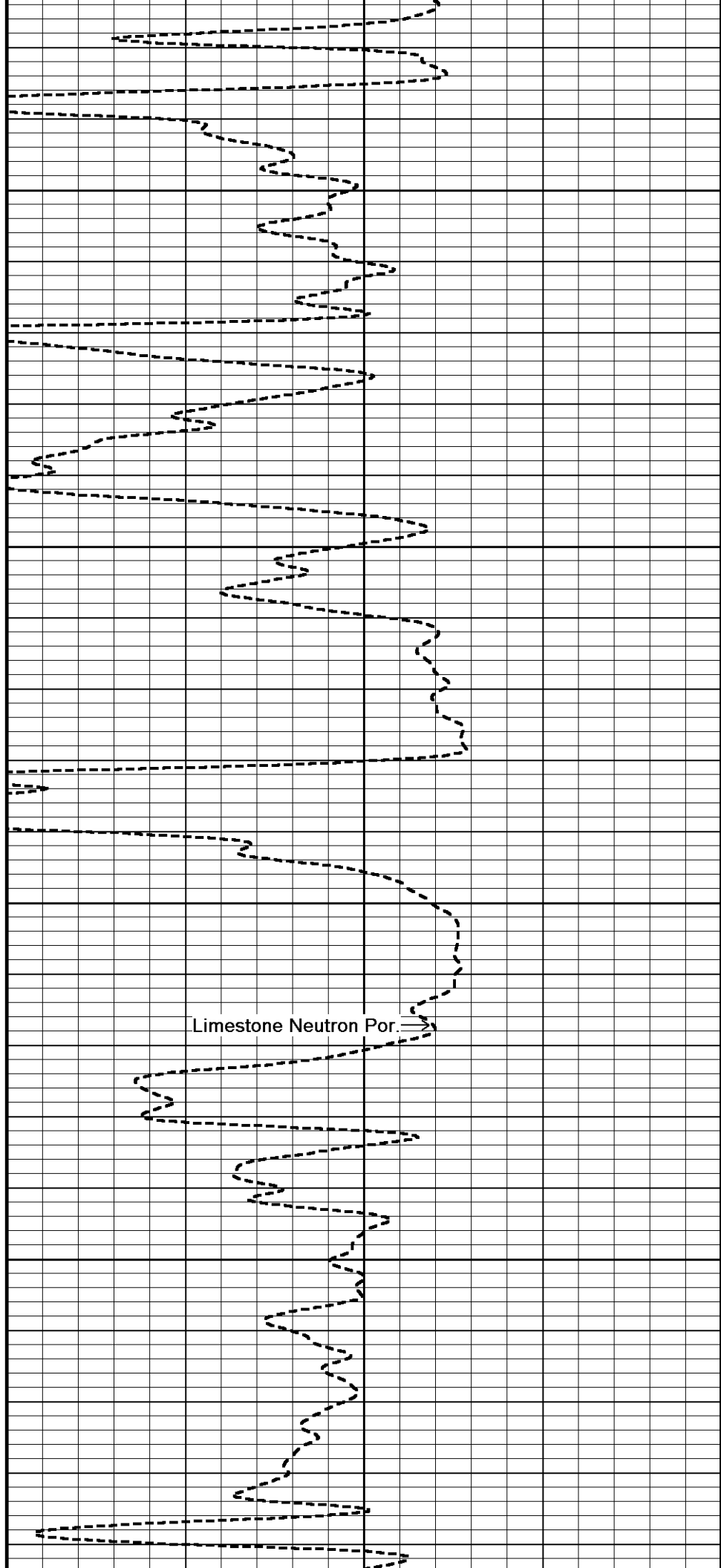
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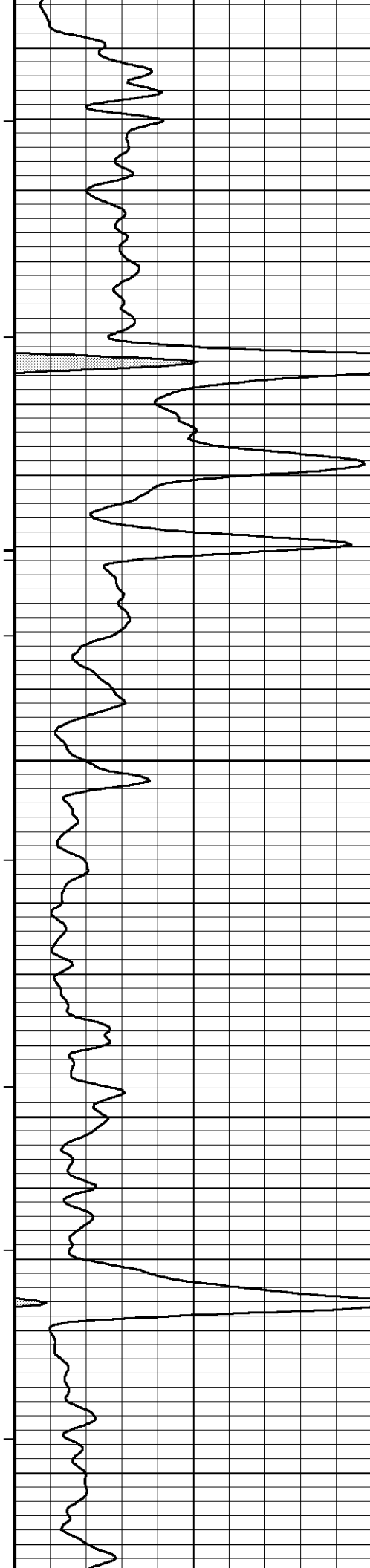
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← MGS Gamma Ray



Limestone Neutron Por. →



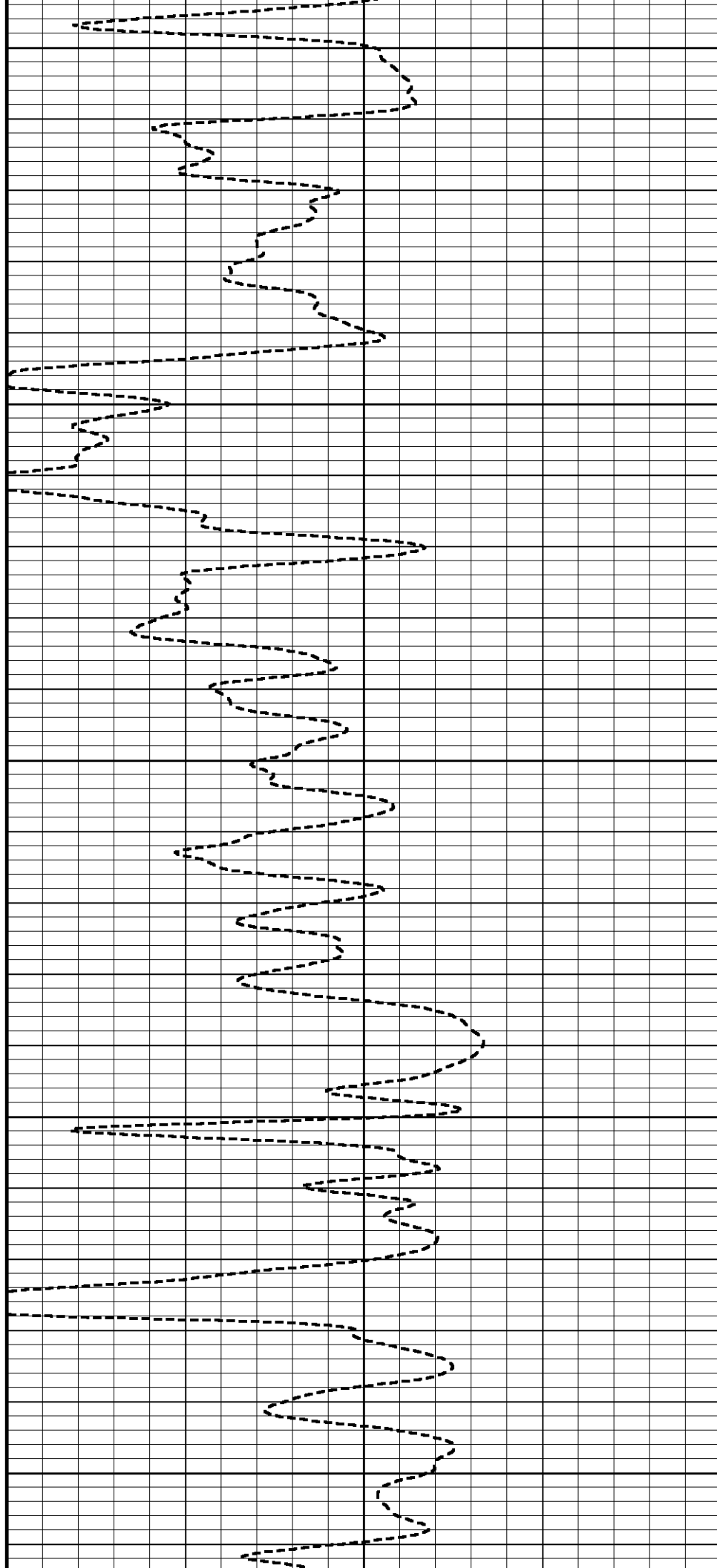
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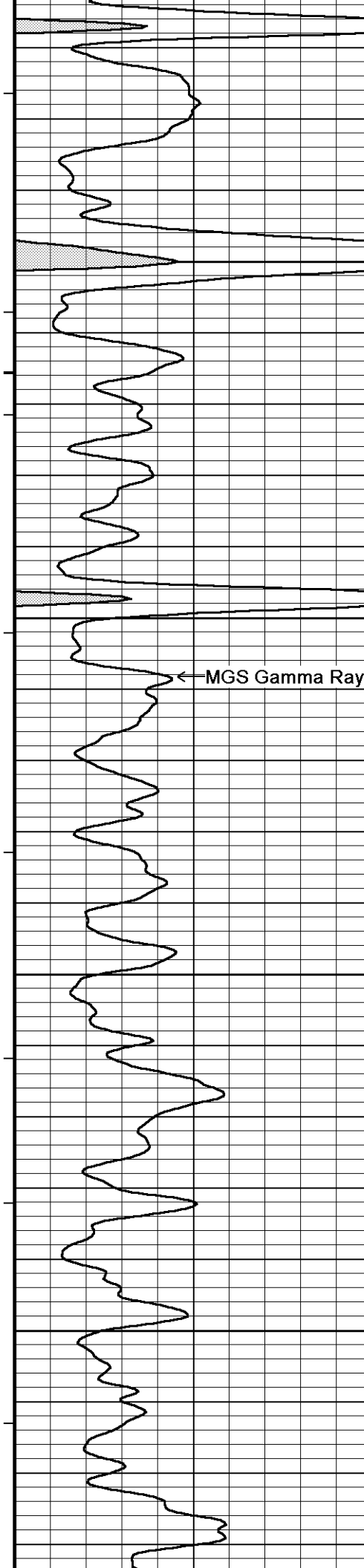
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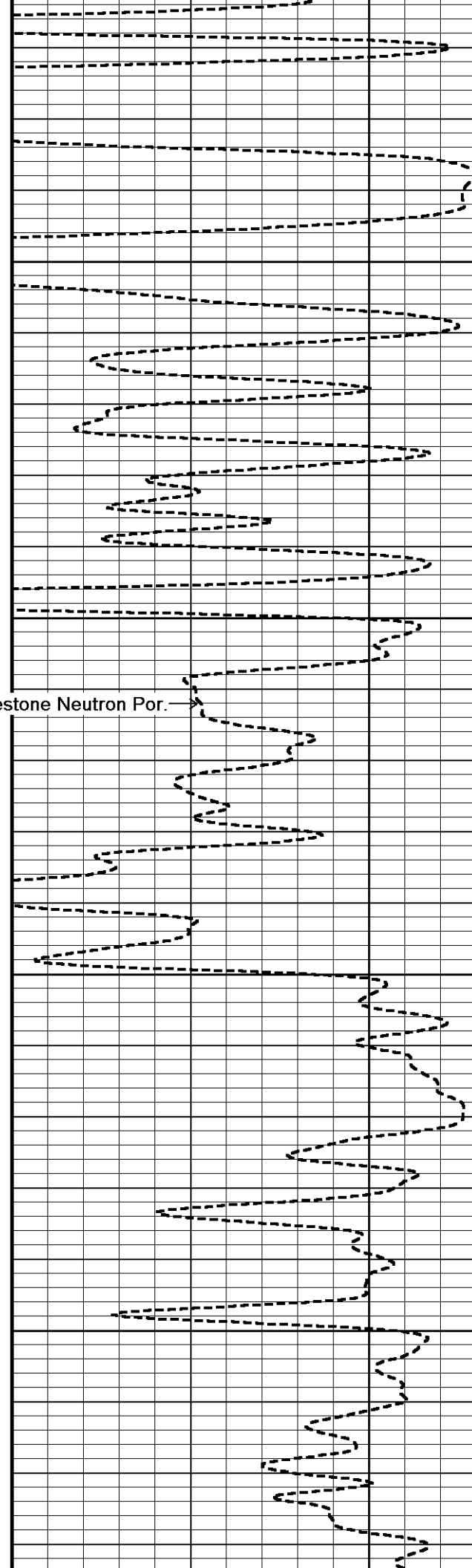
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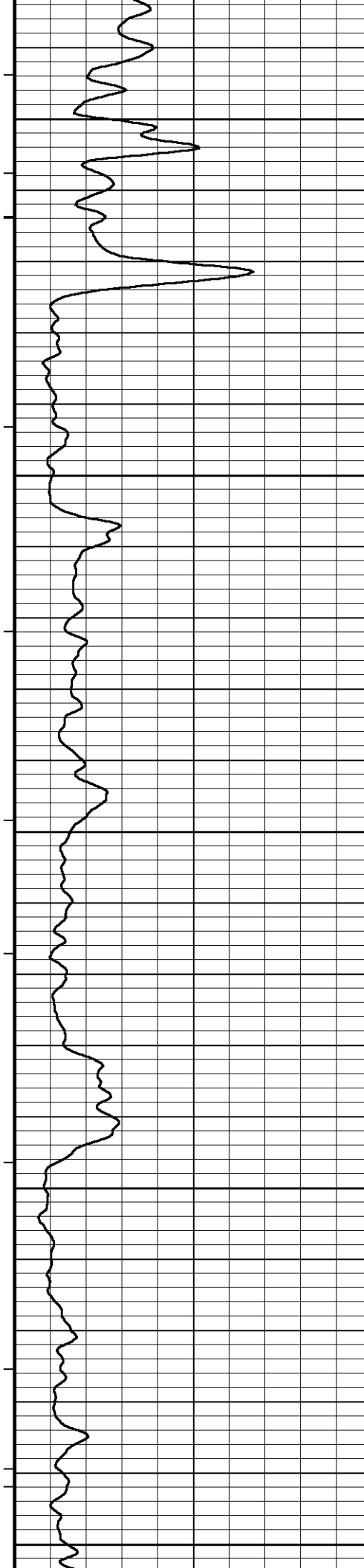
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5050

← MGS Gamma Ray

Limestone Neutron Por. →





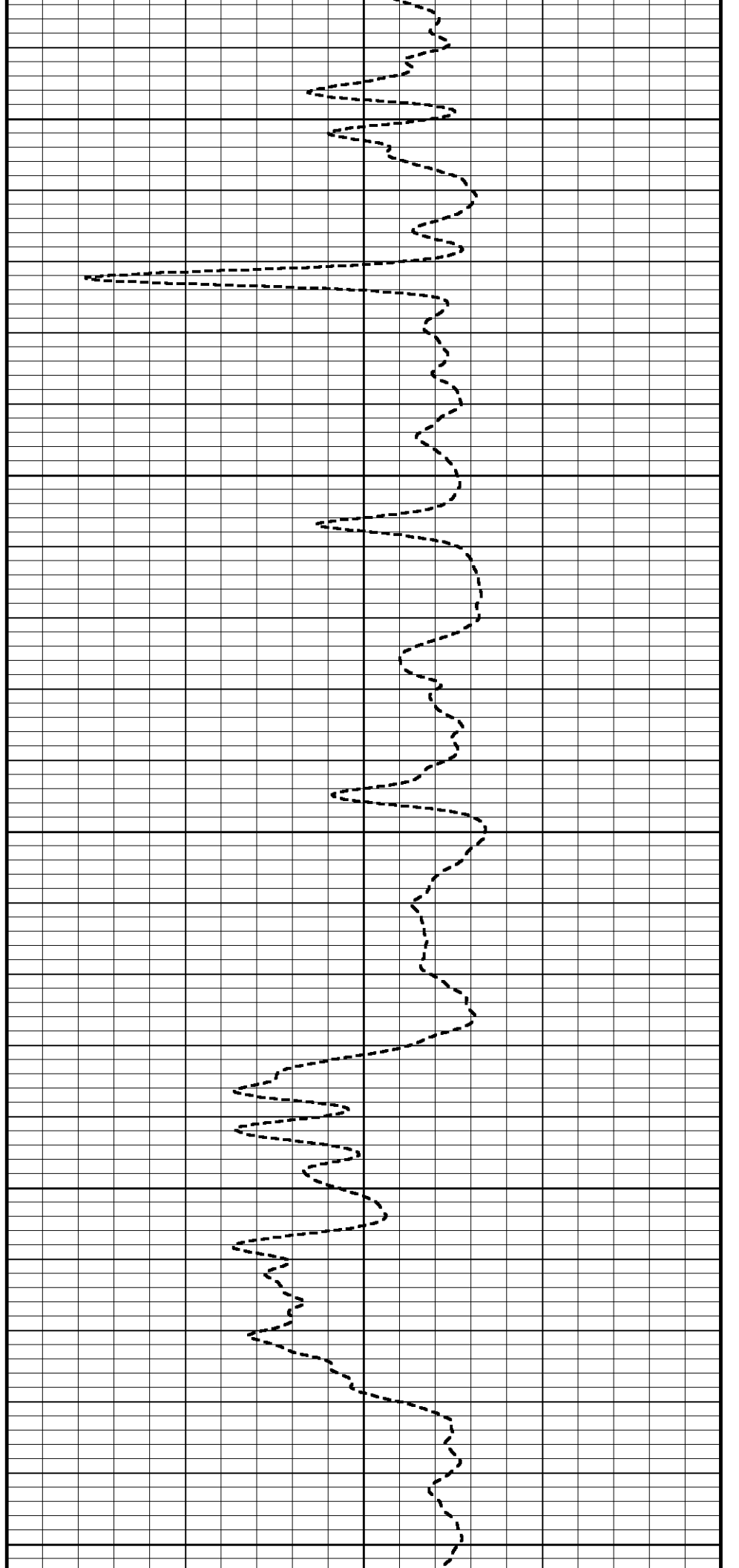
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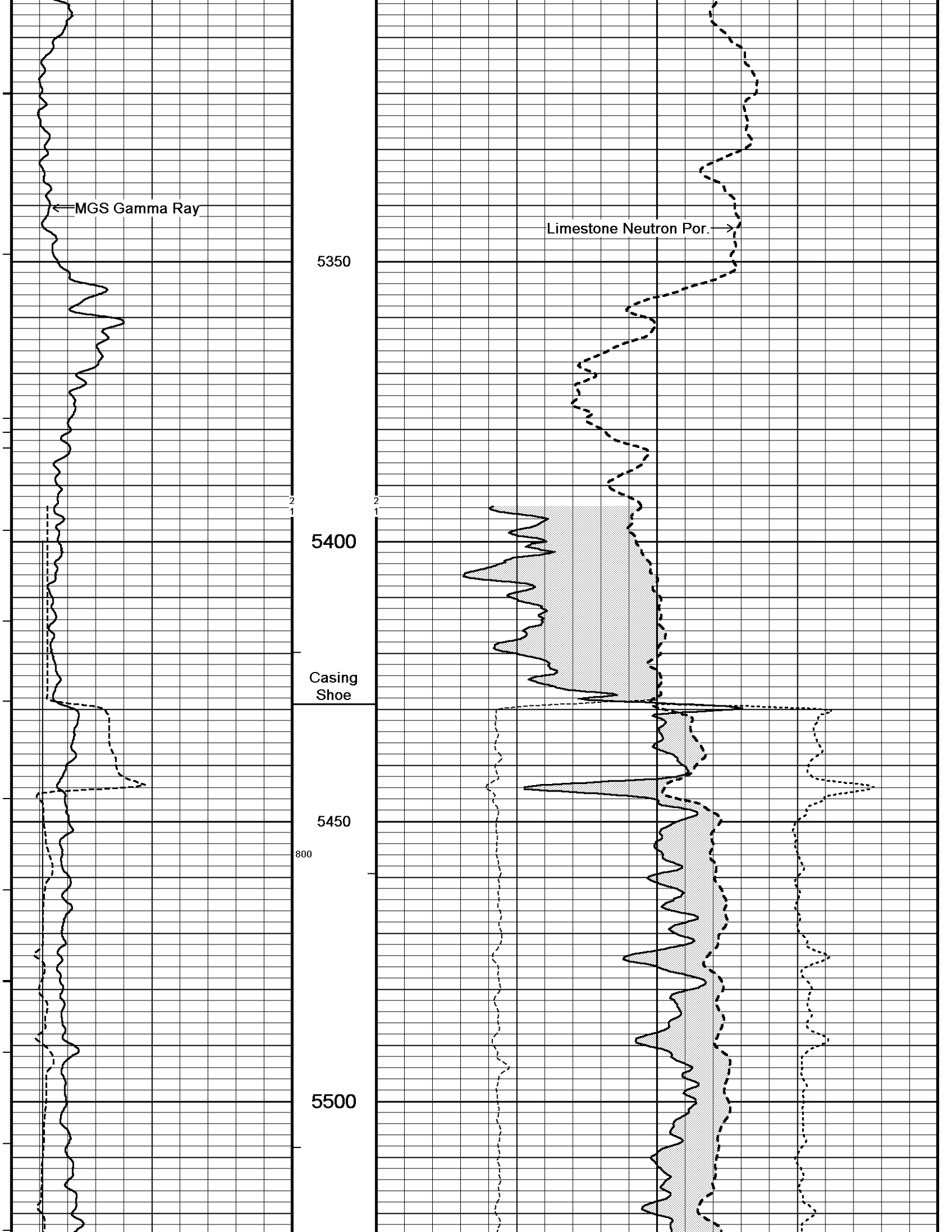
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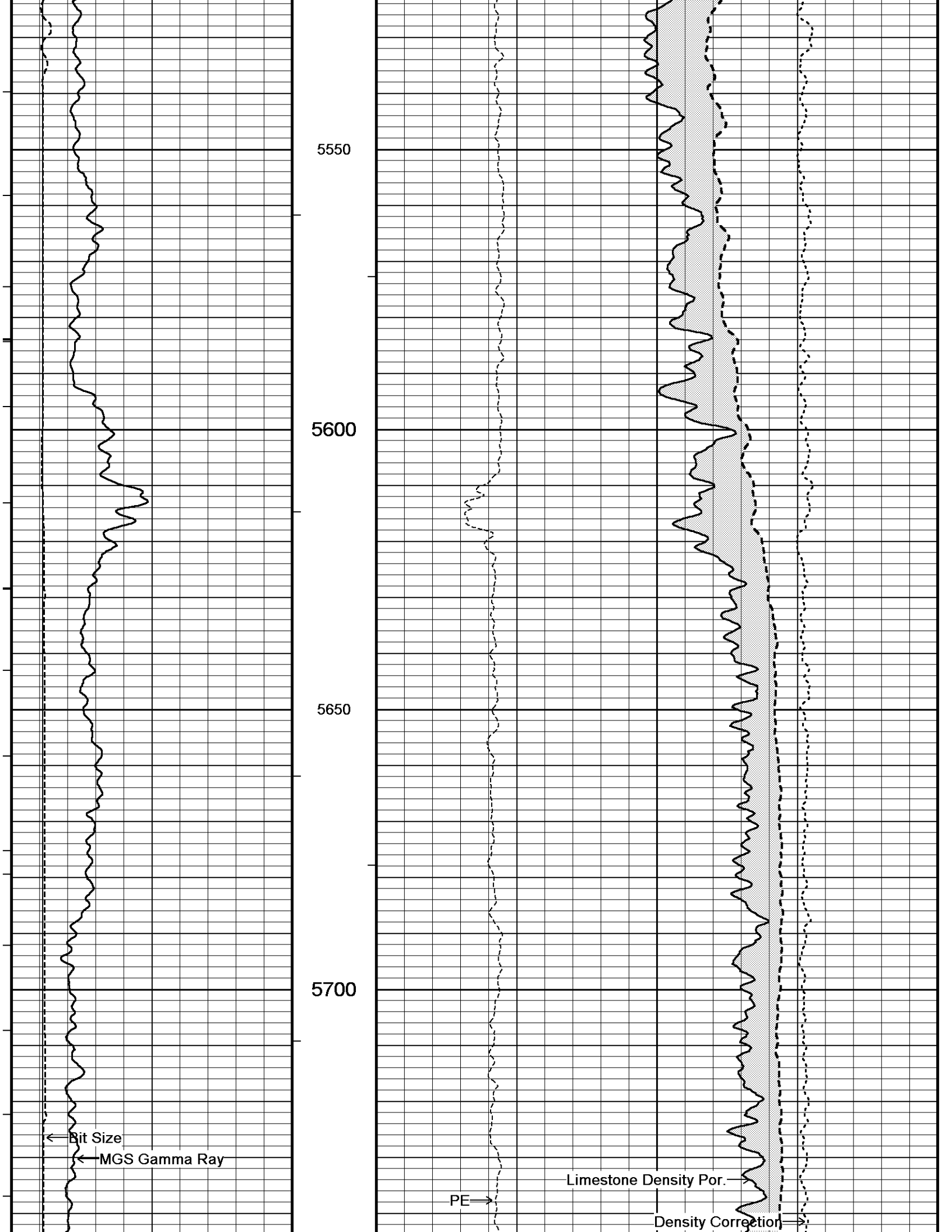
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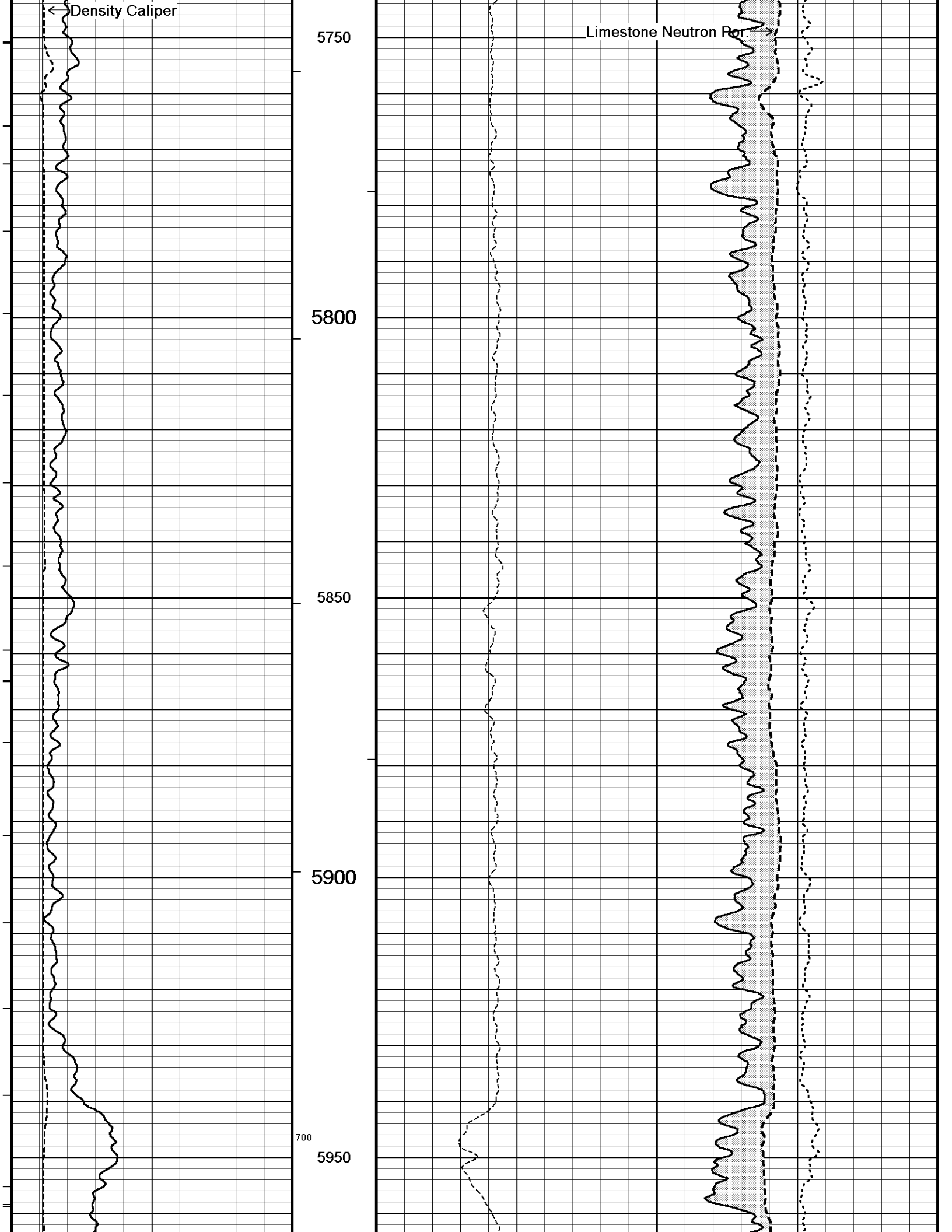
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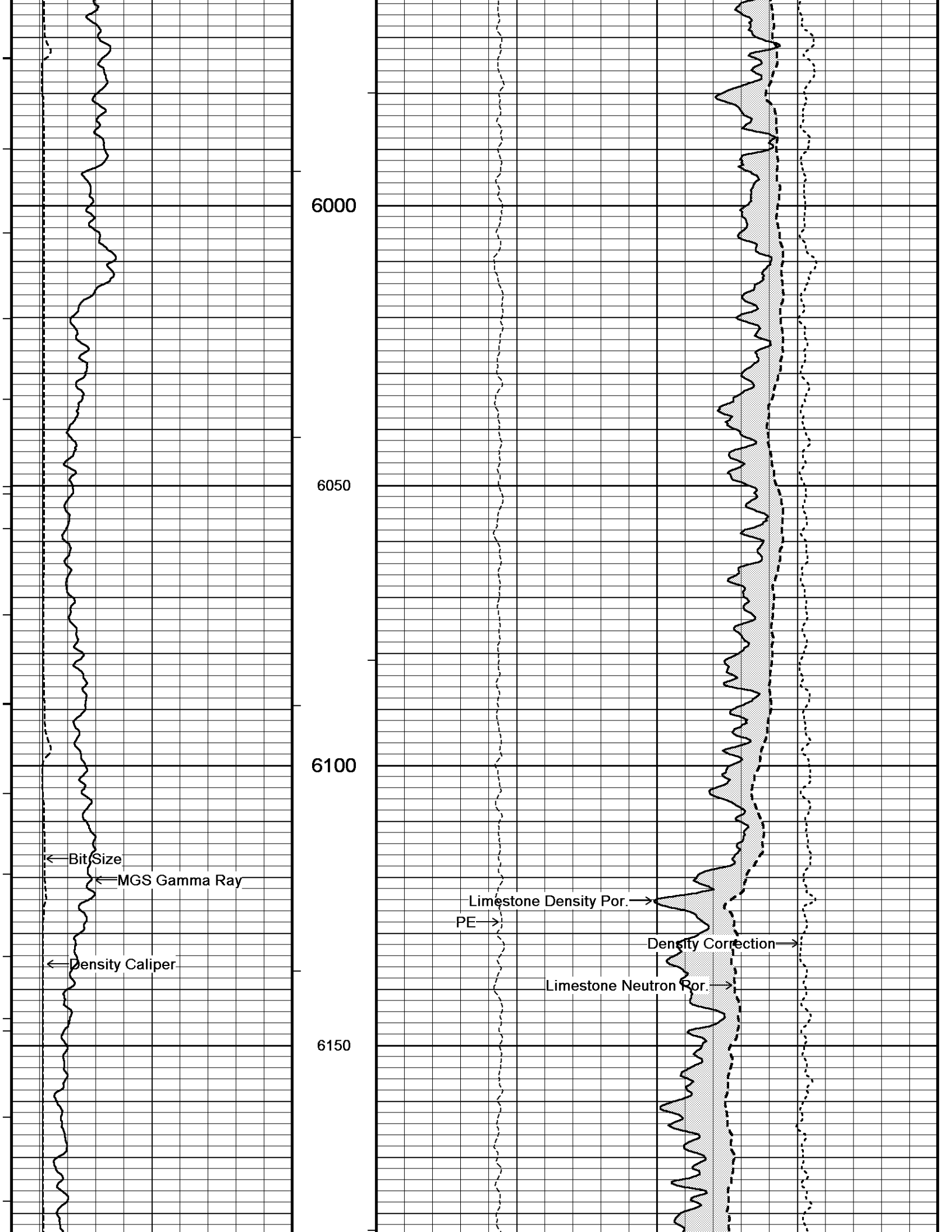
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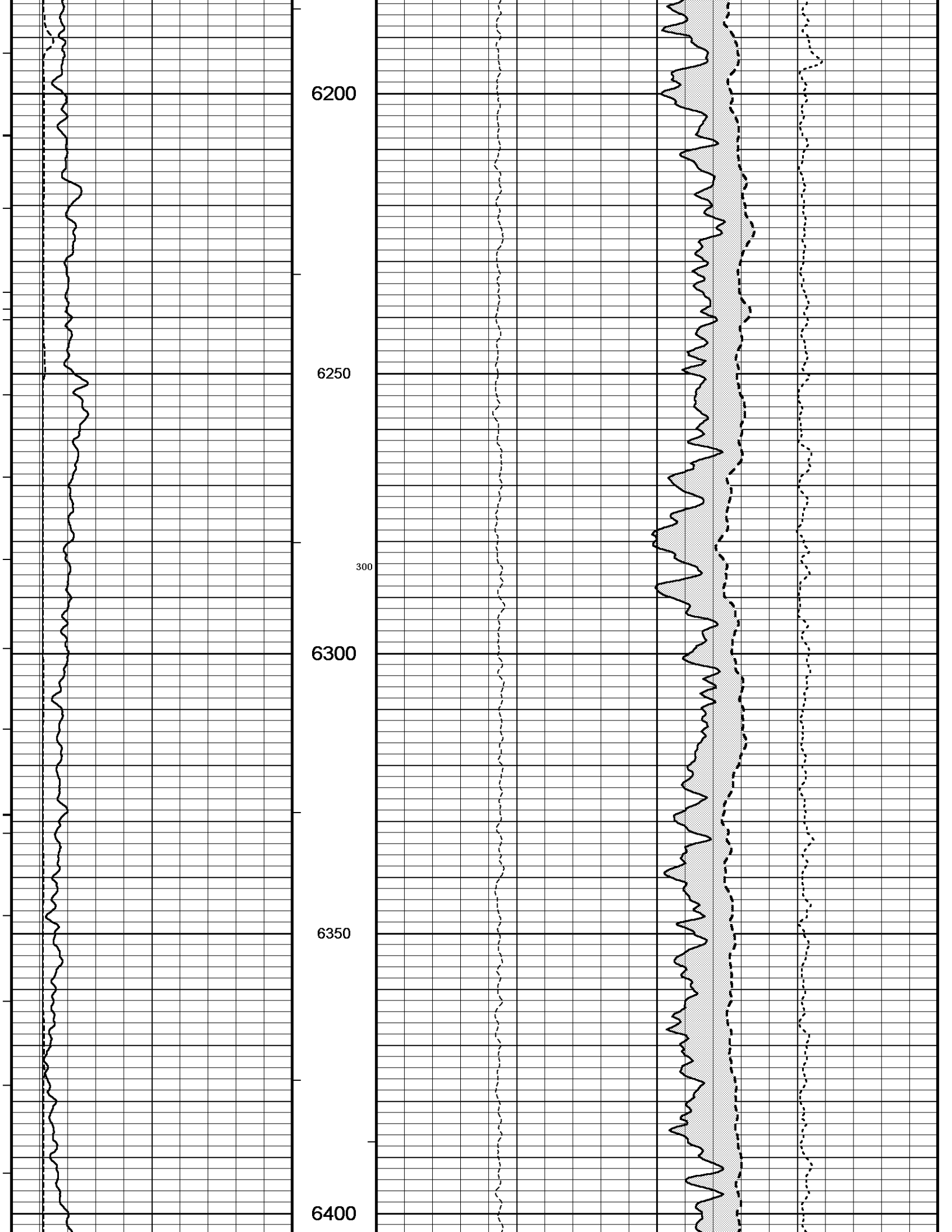


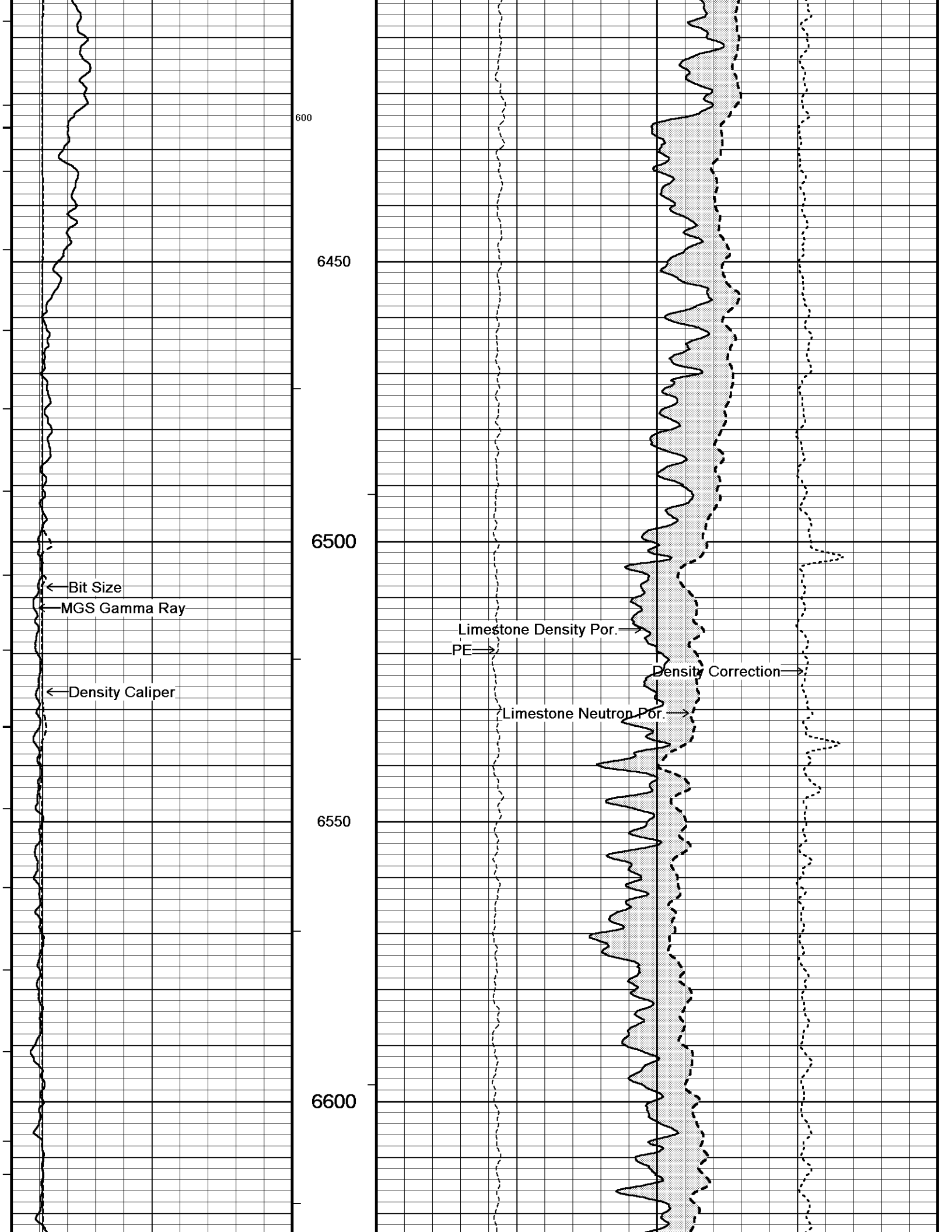


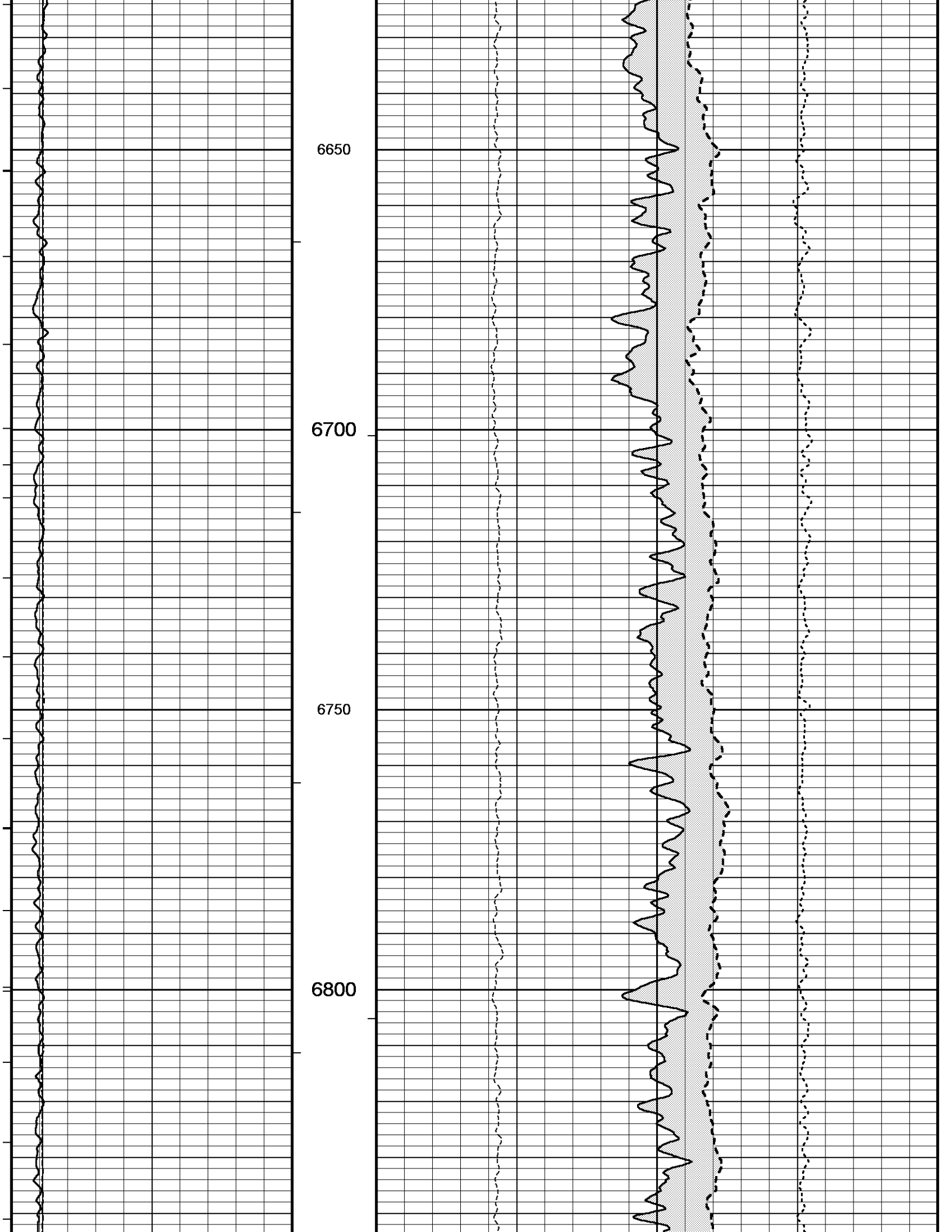


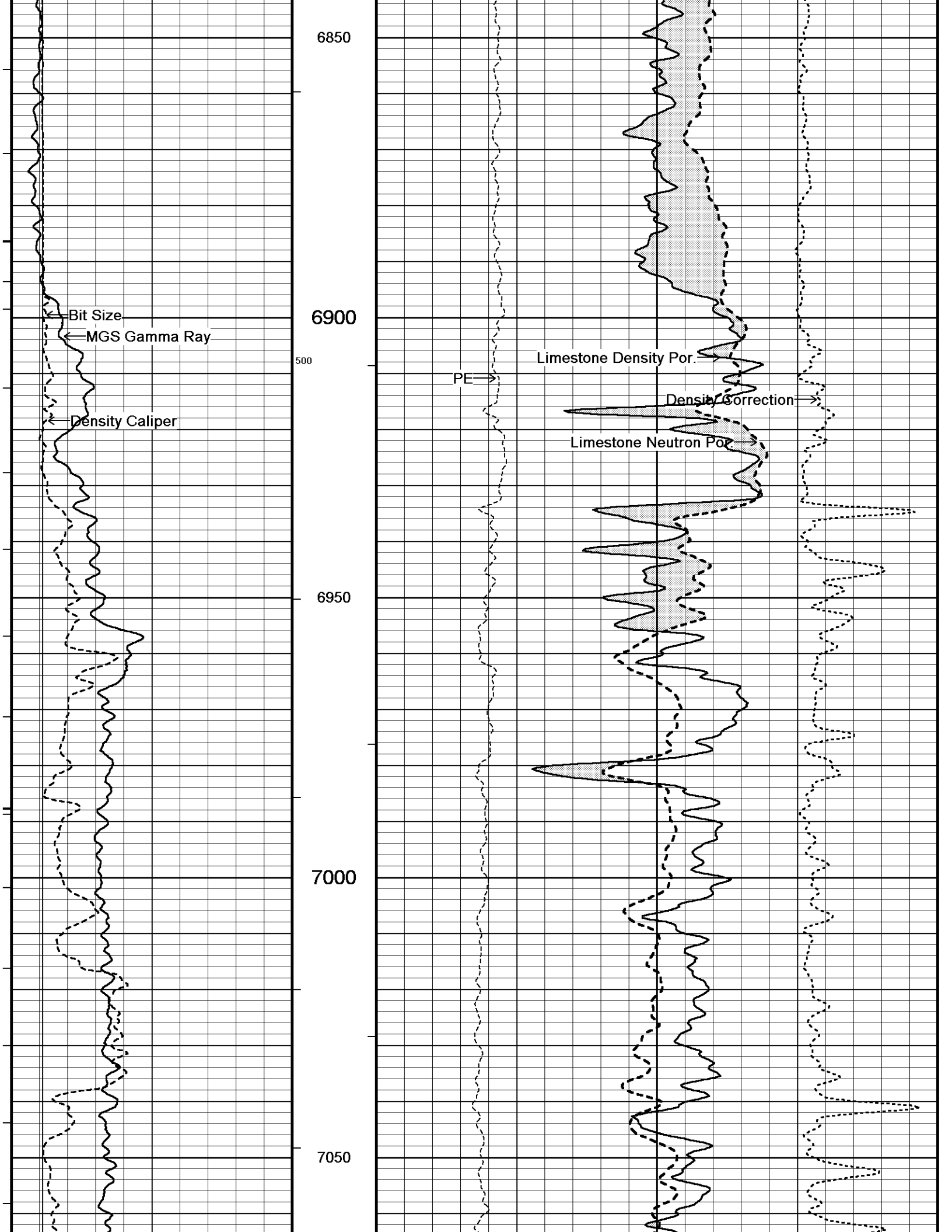


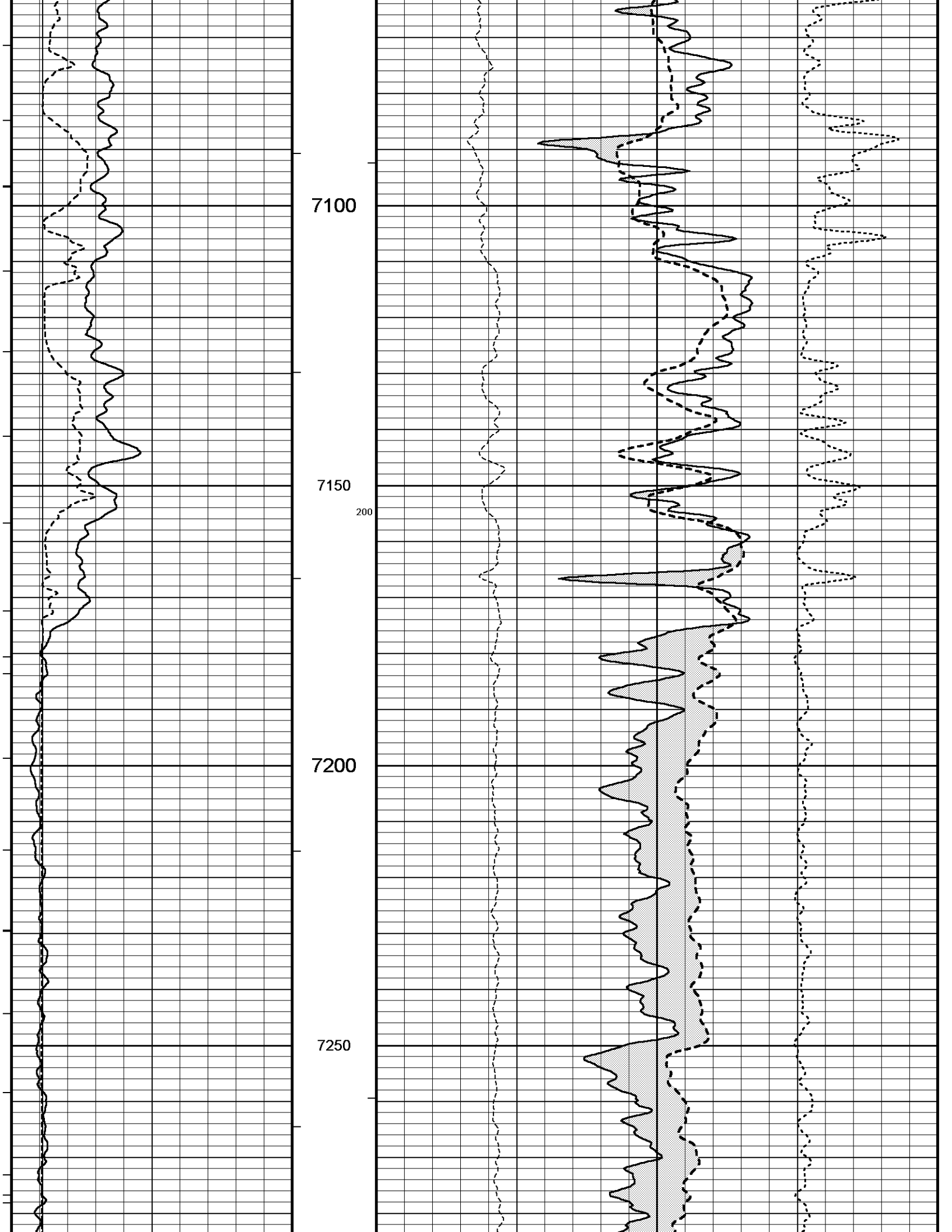


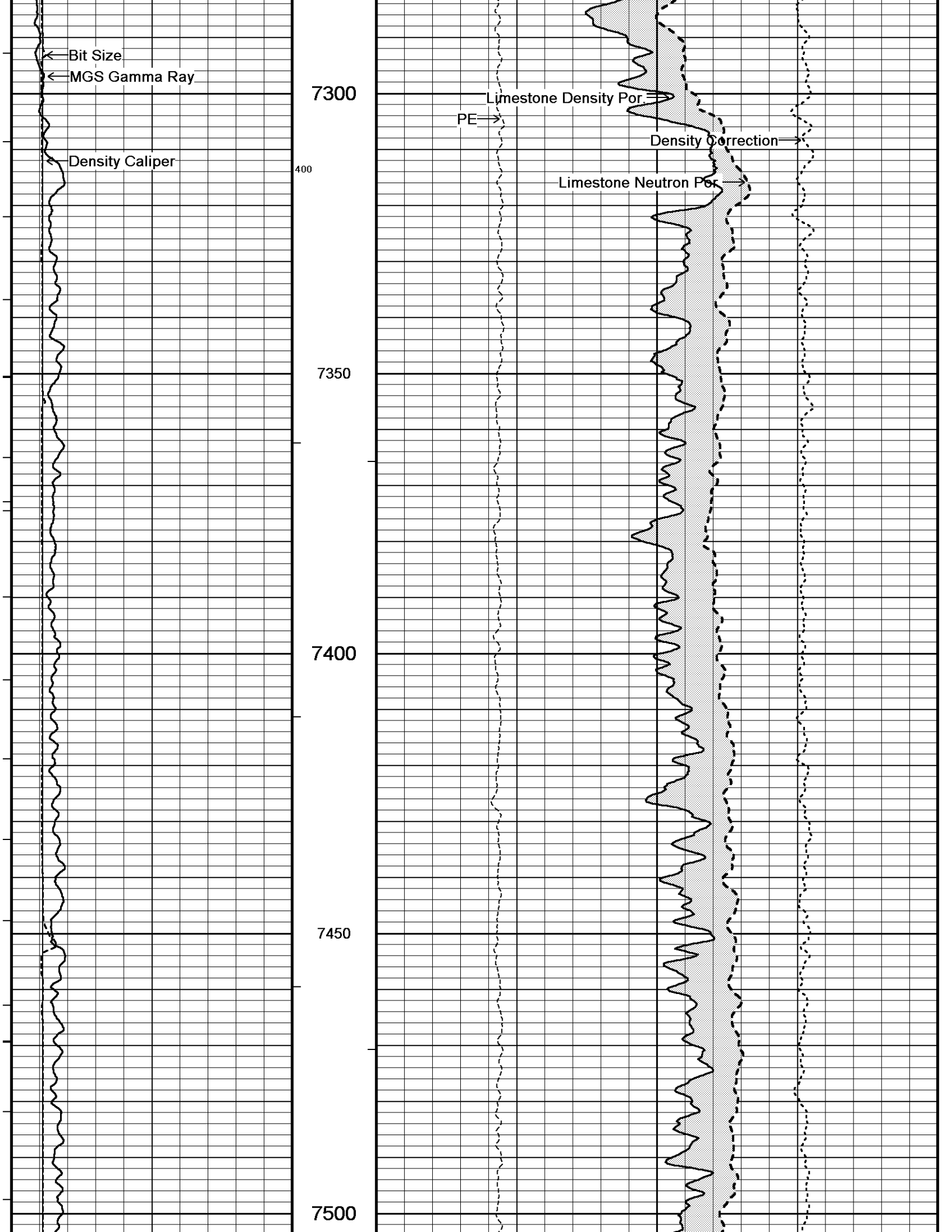


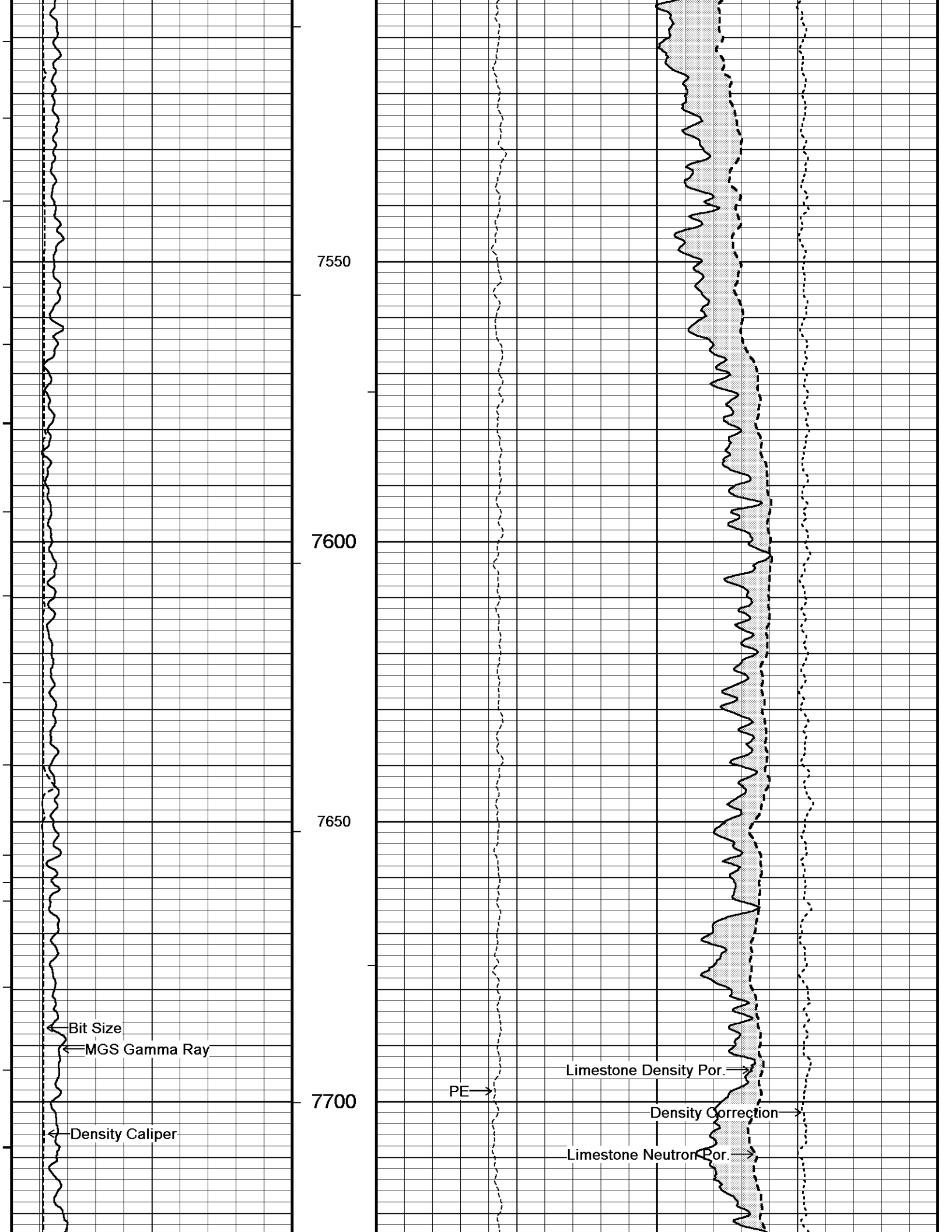


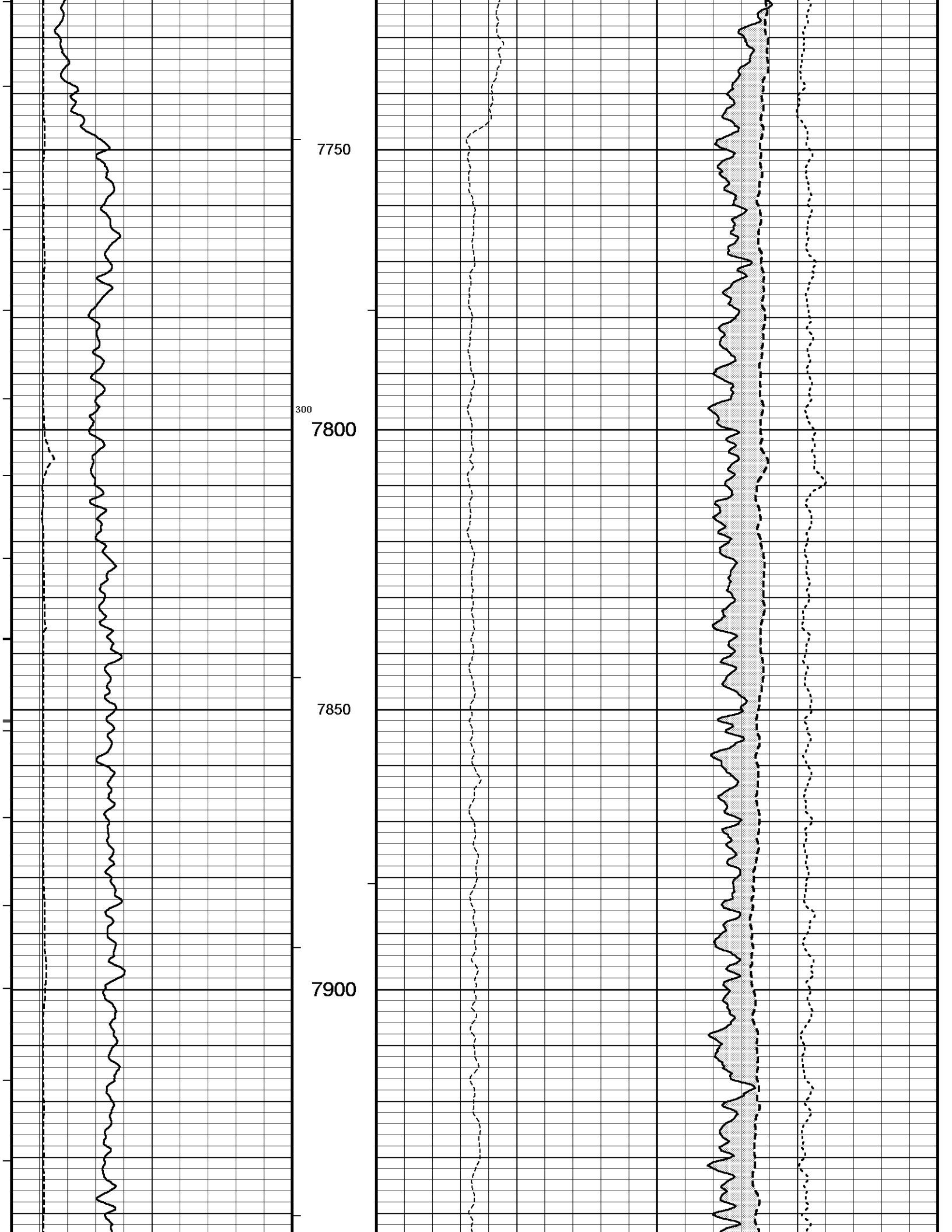


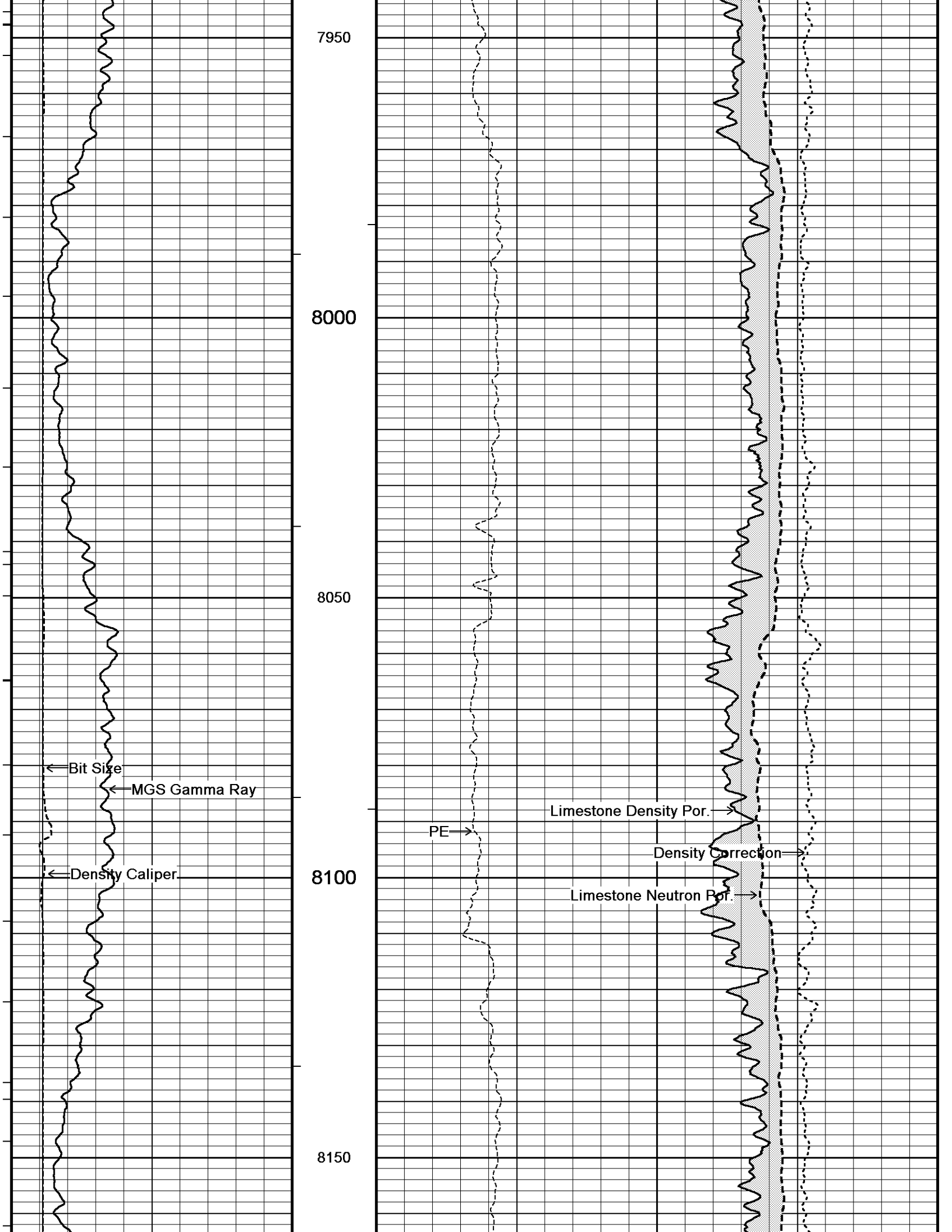


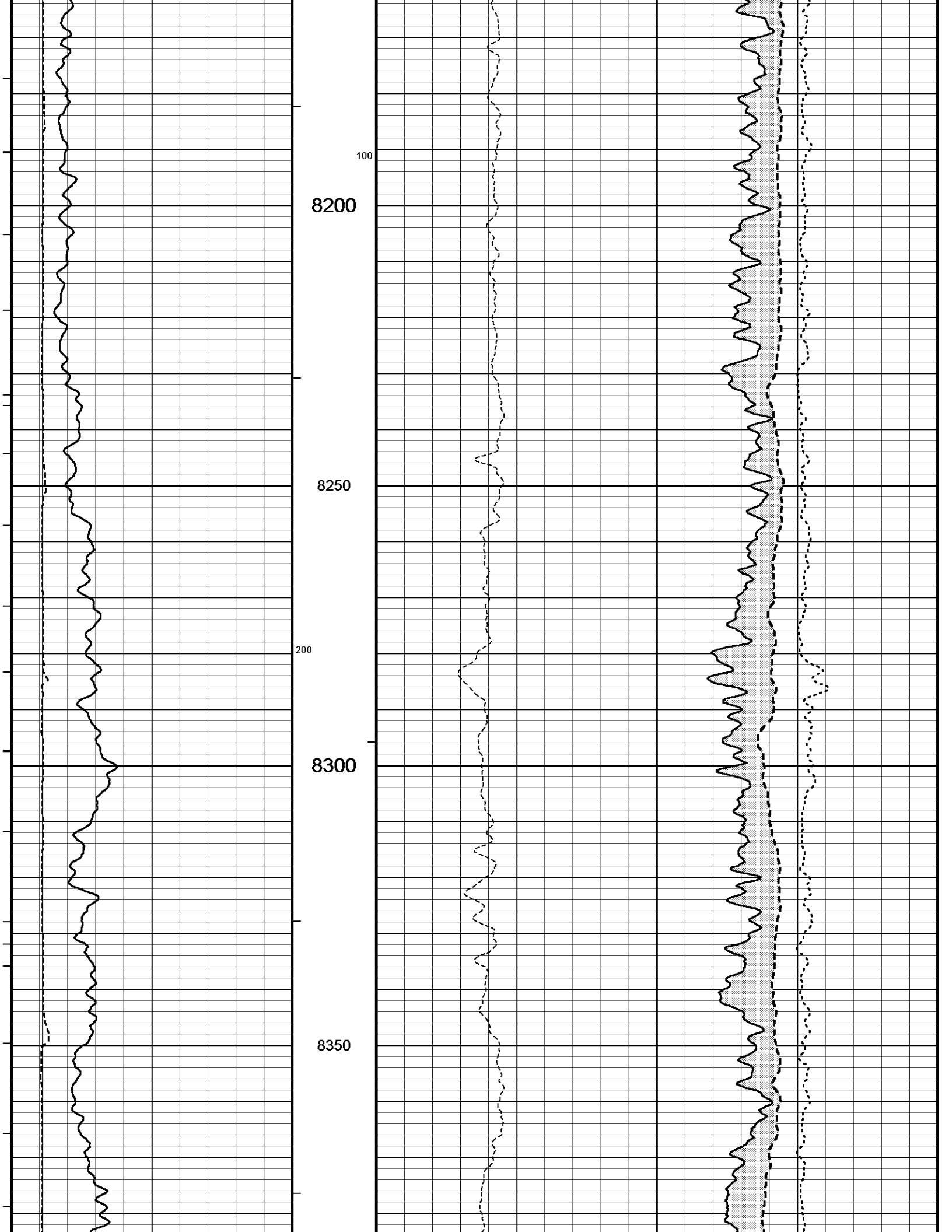


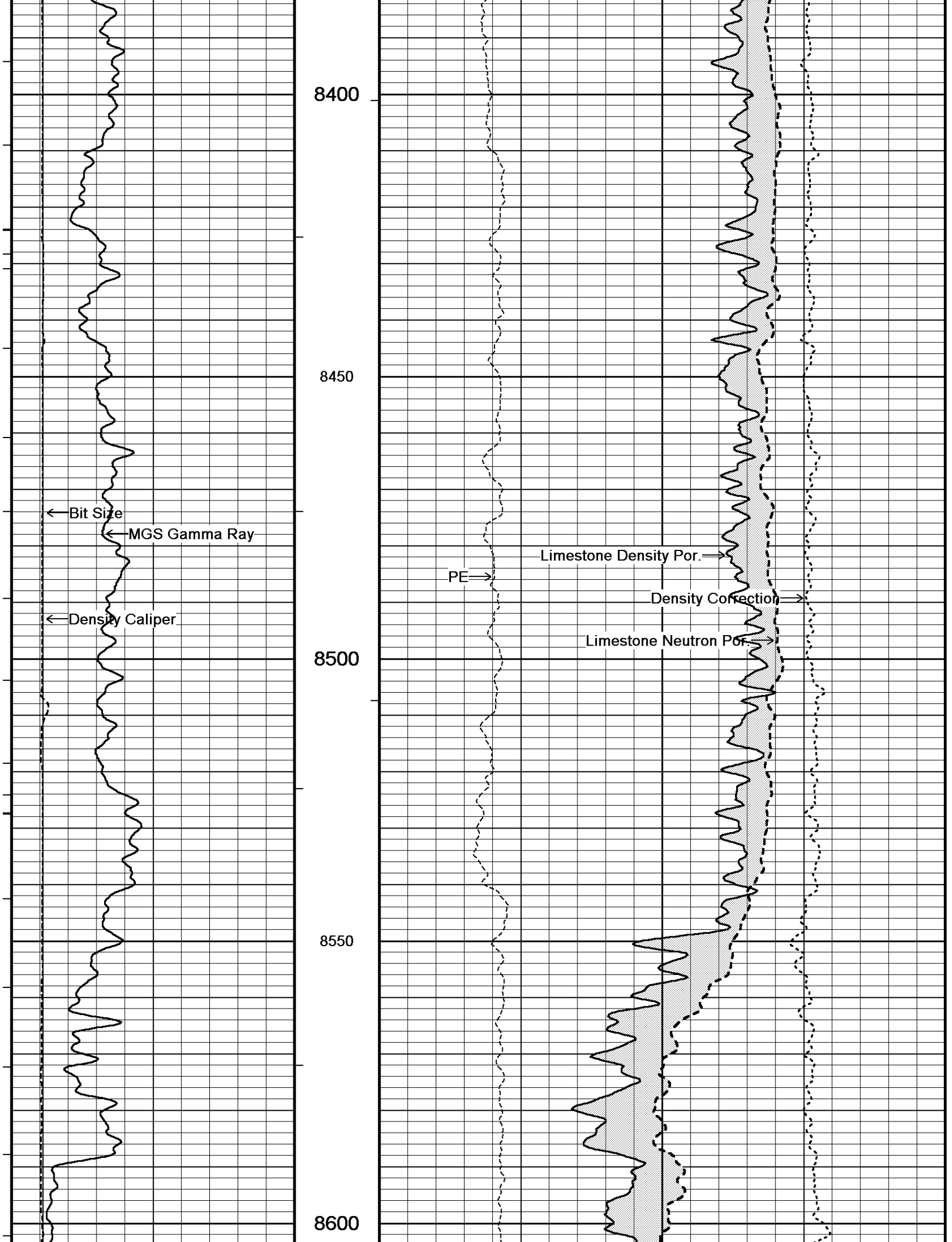


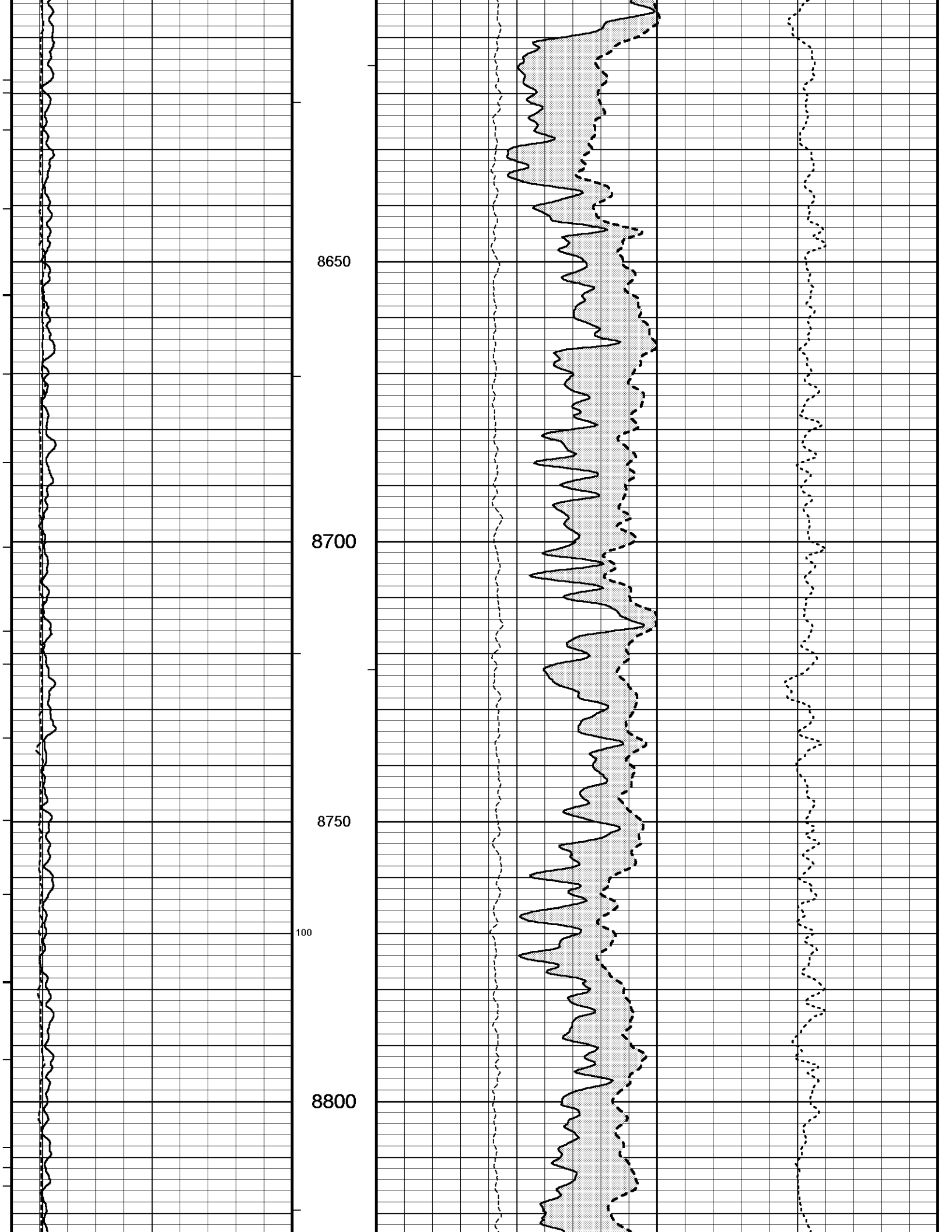


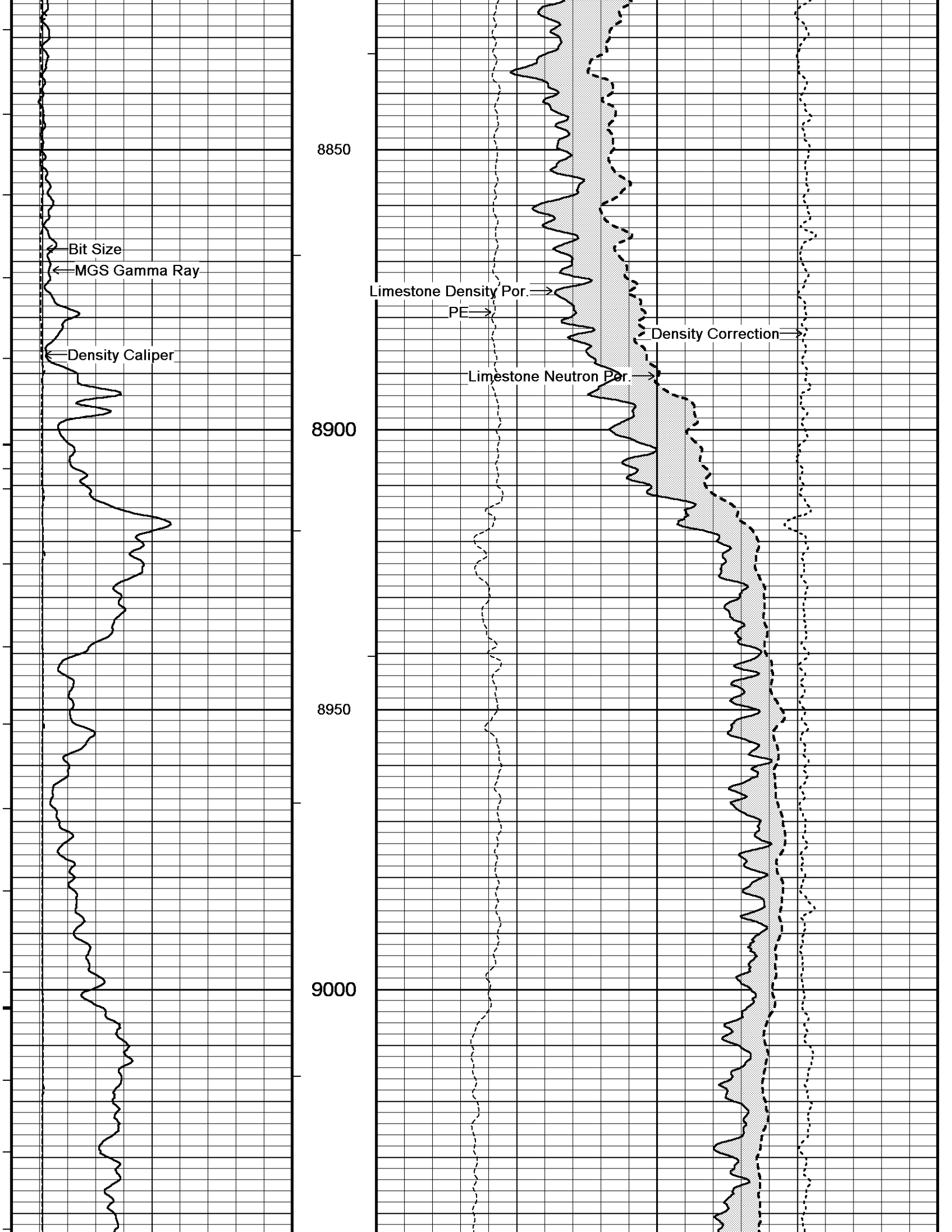


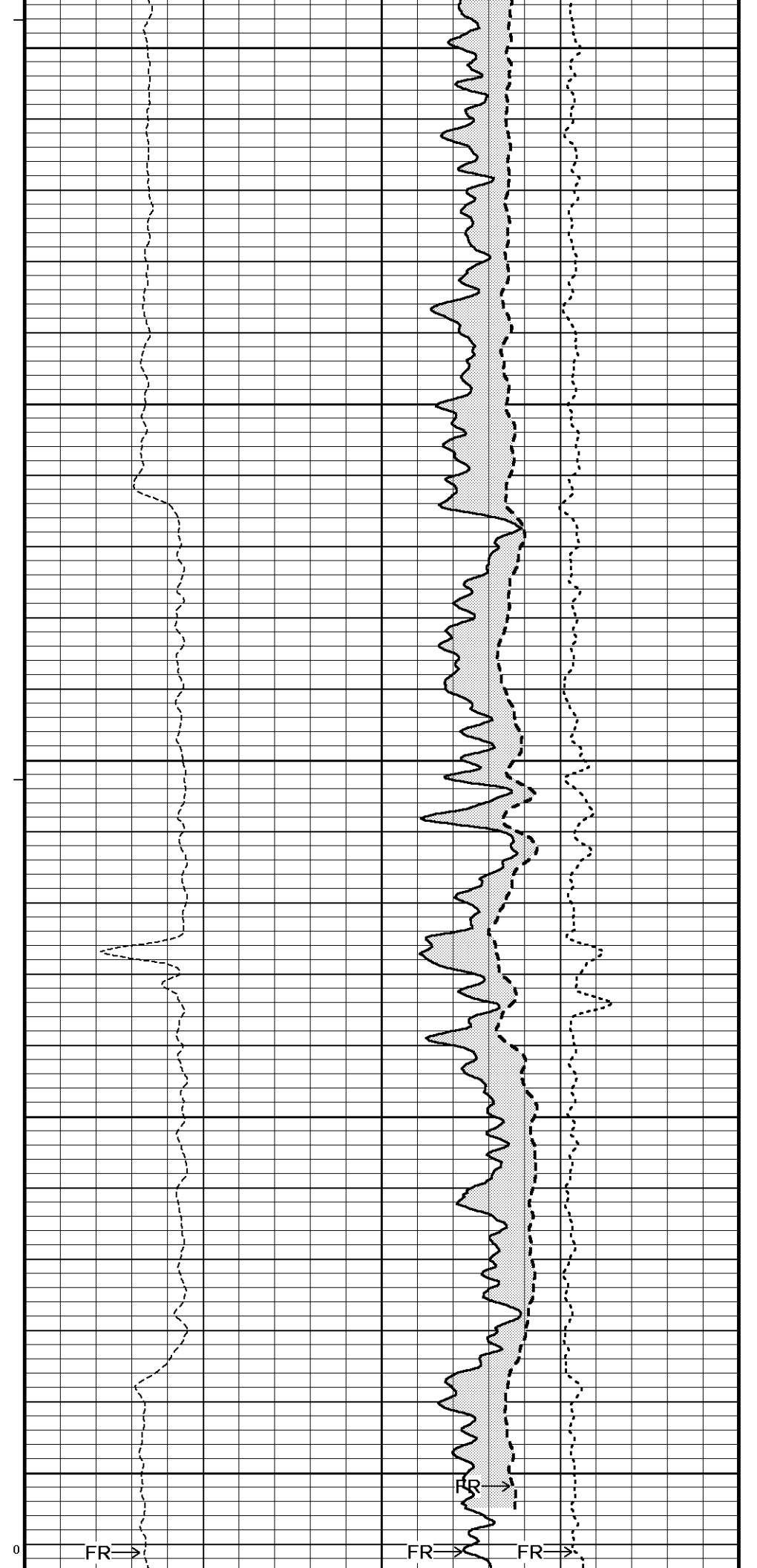
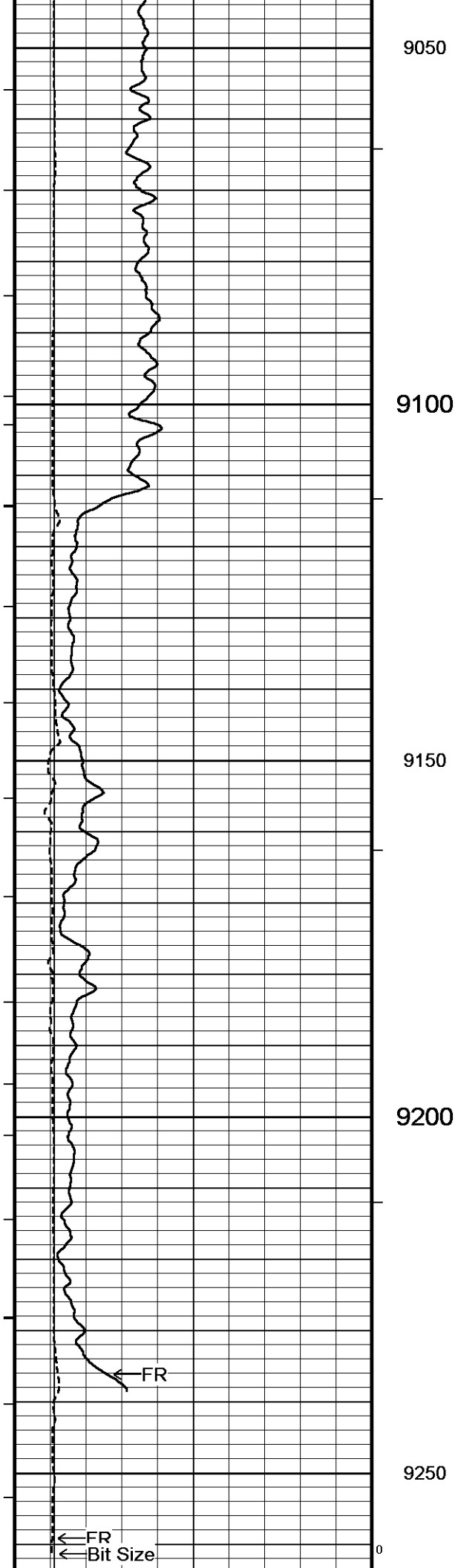


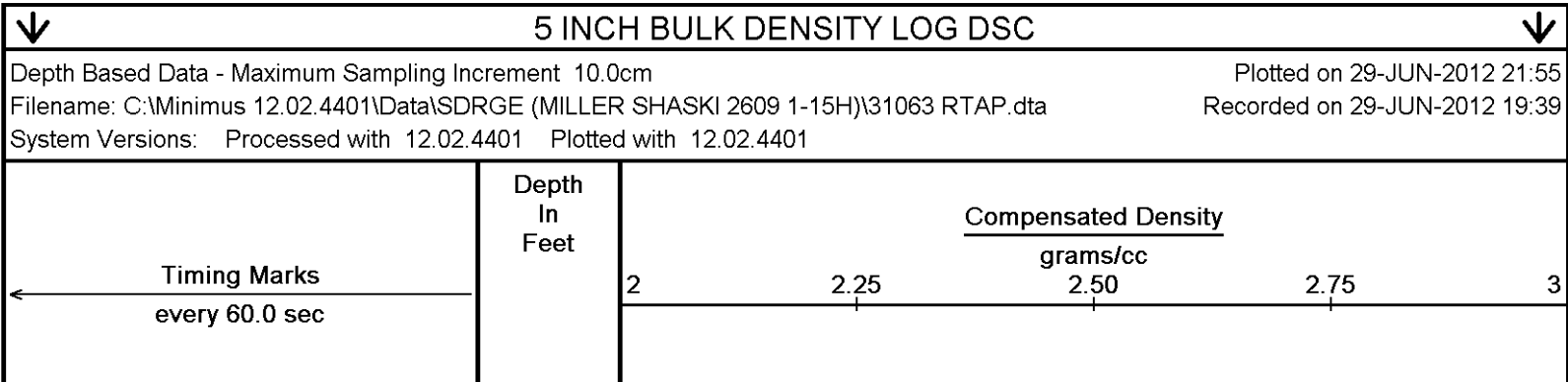
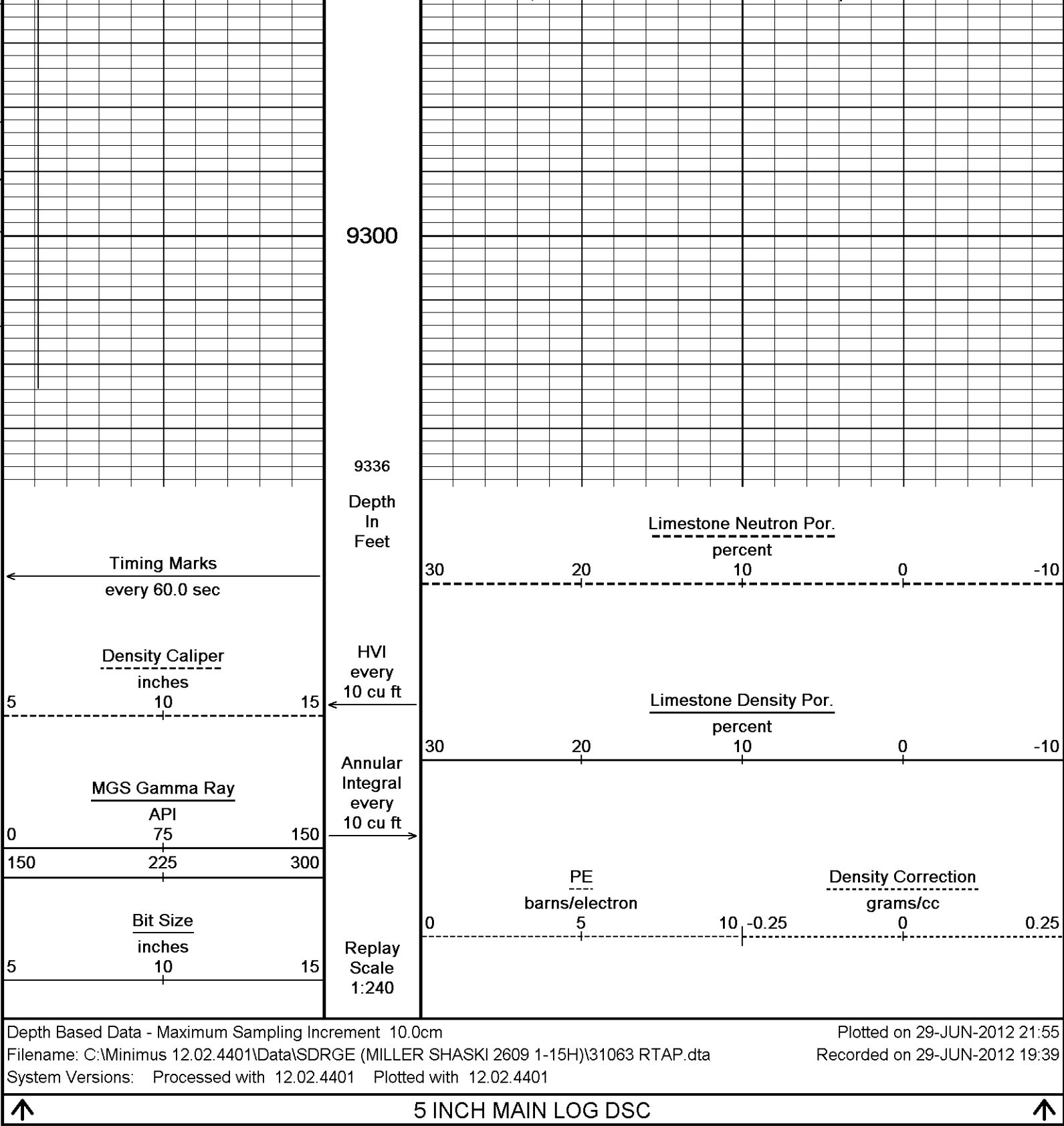


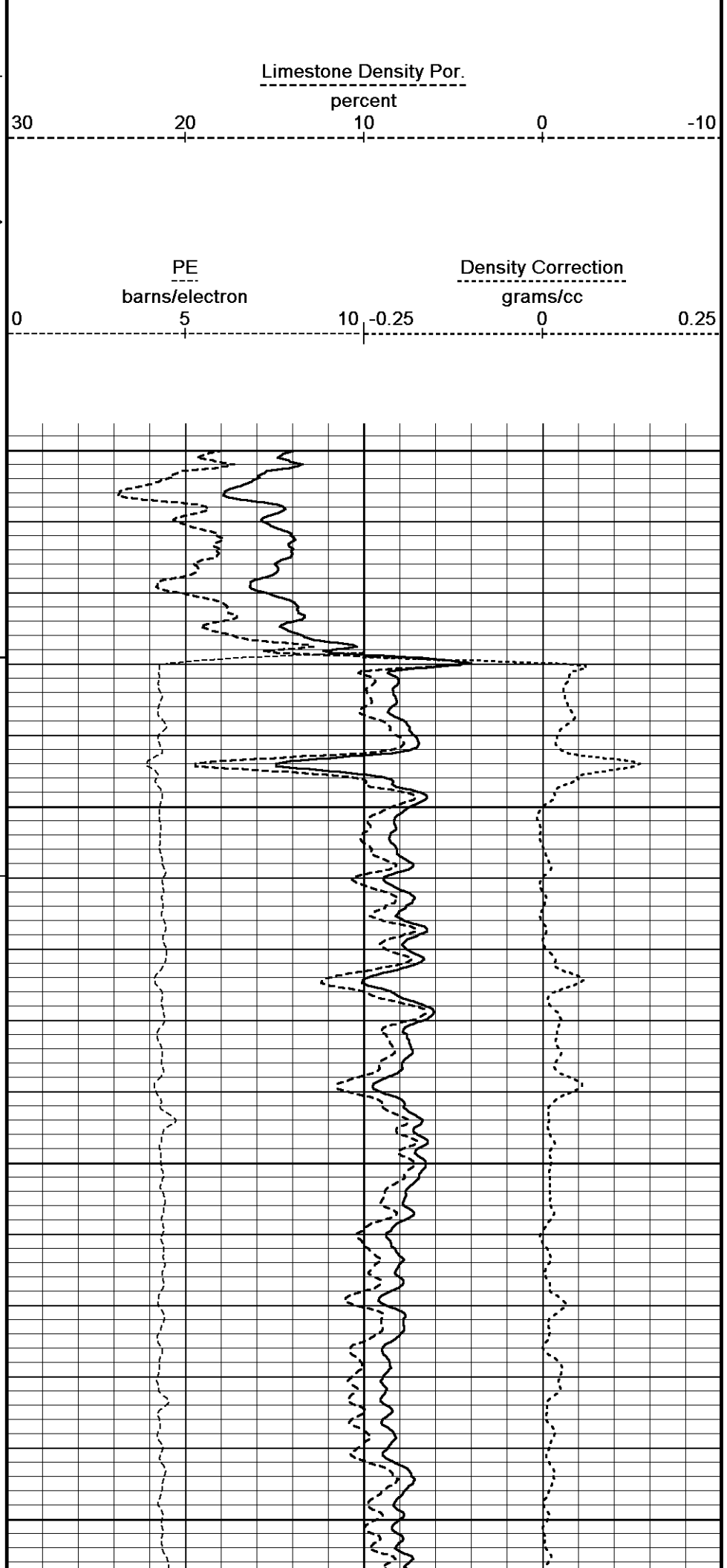
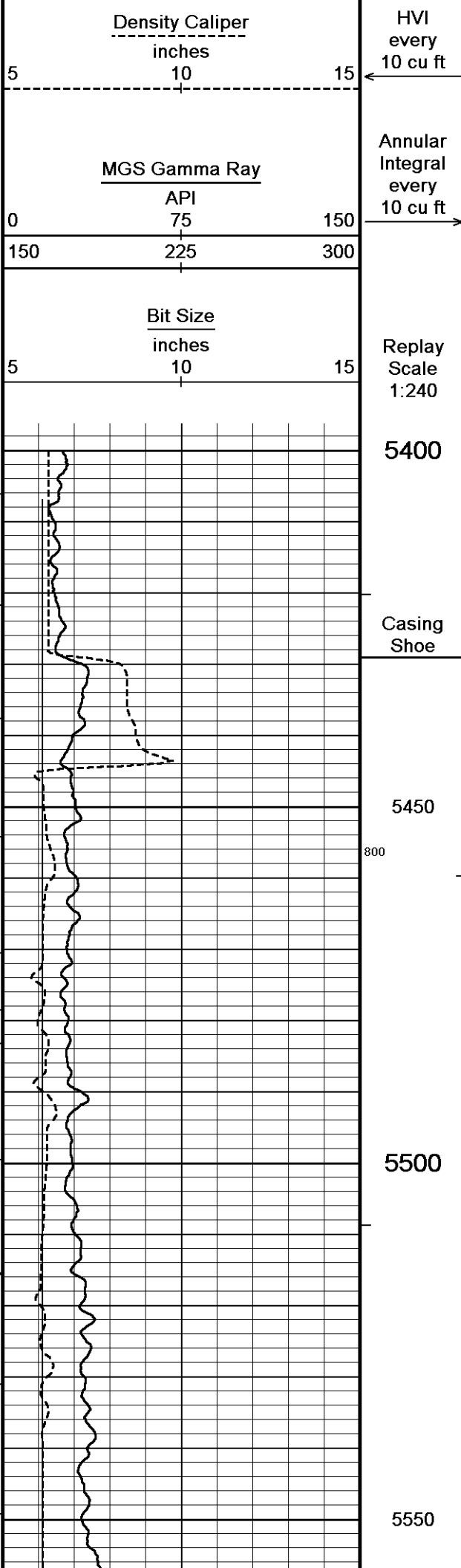


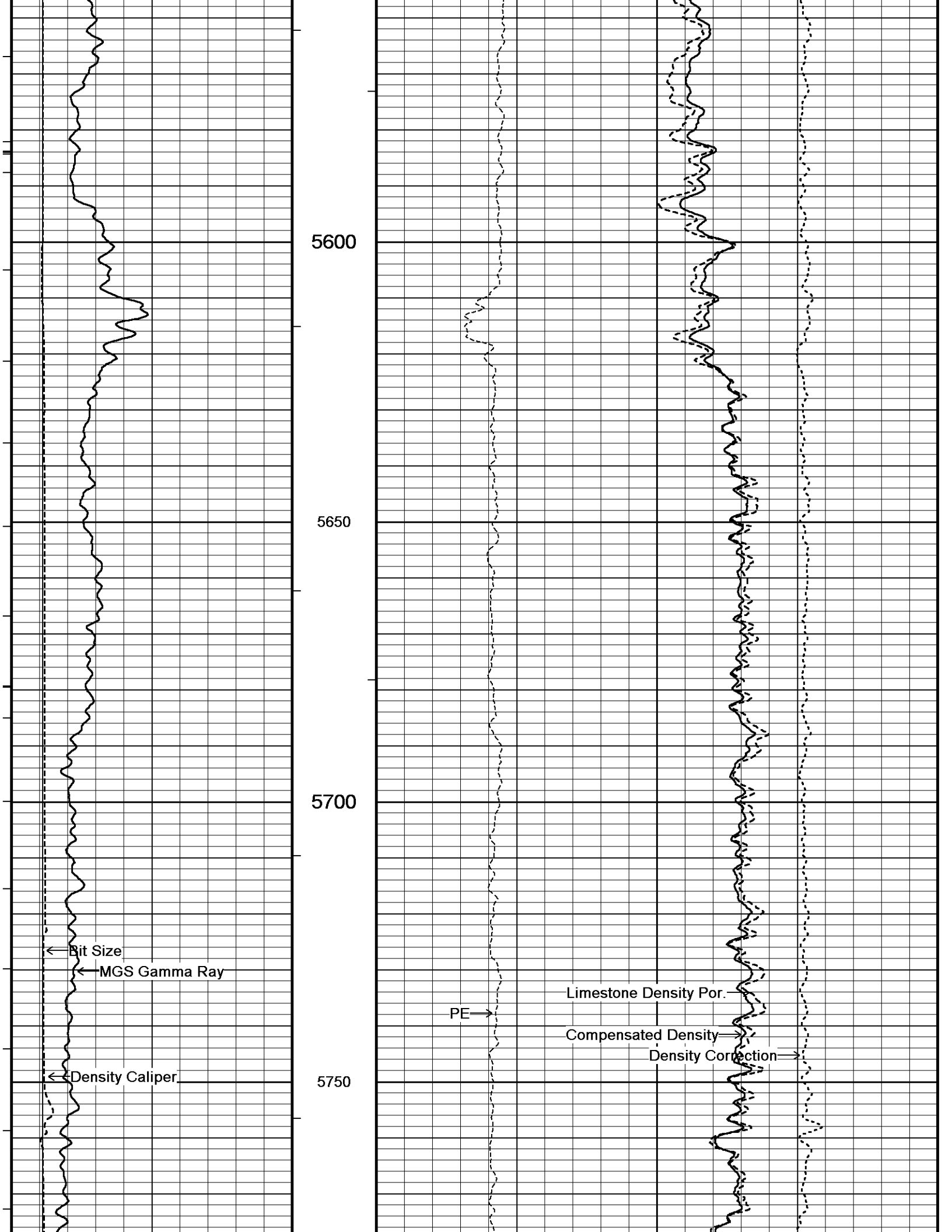


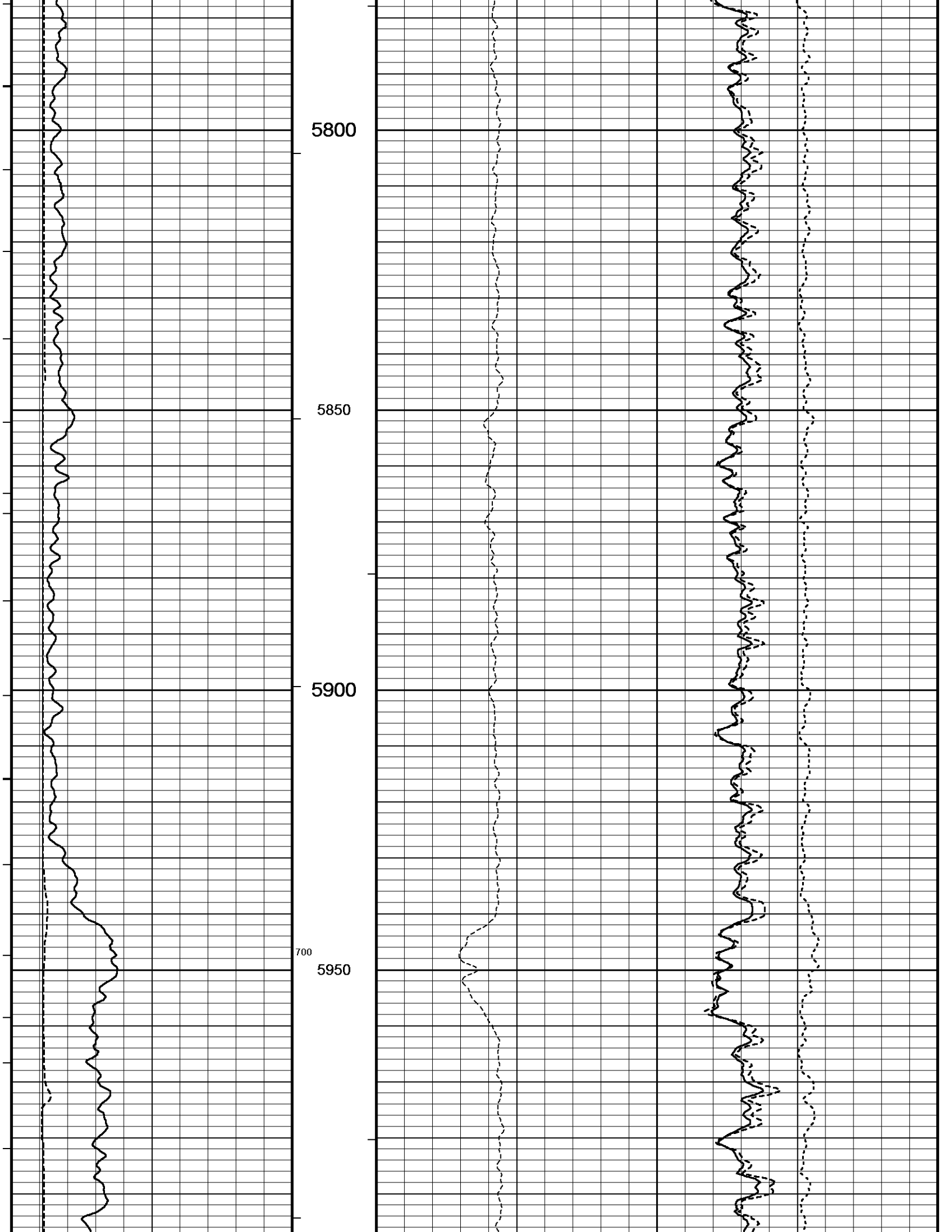


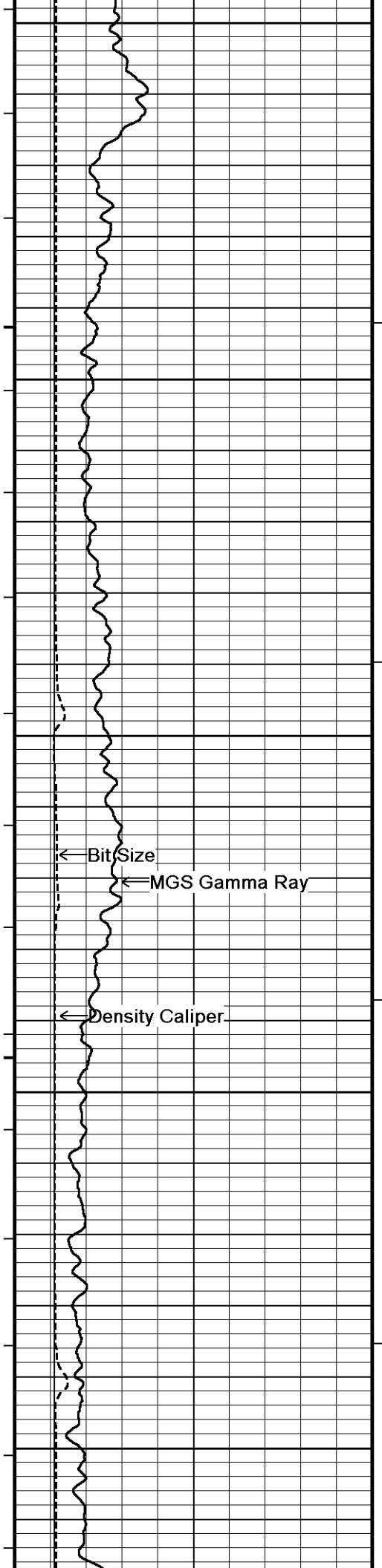












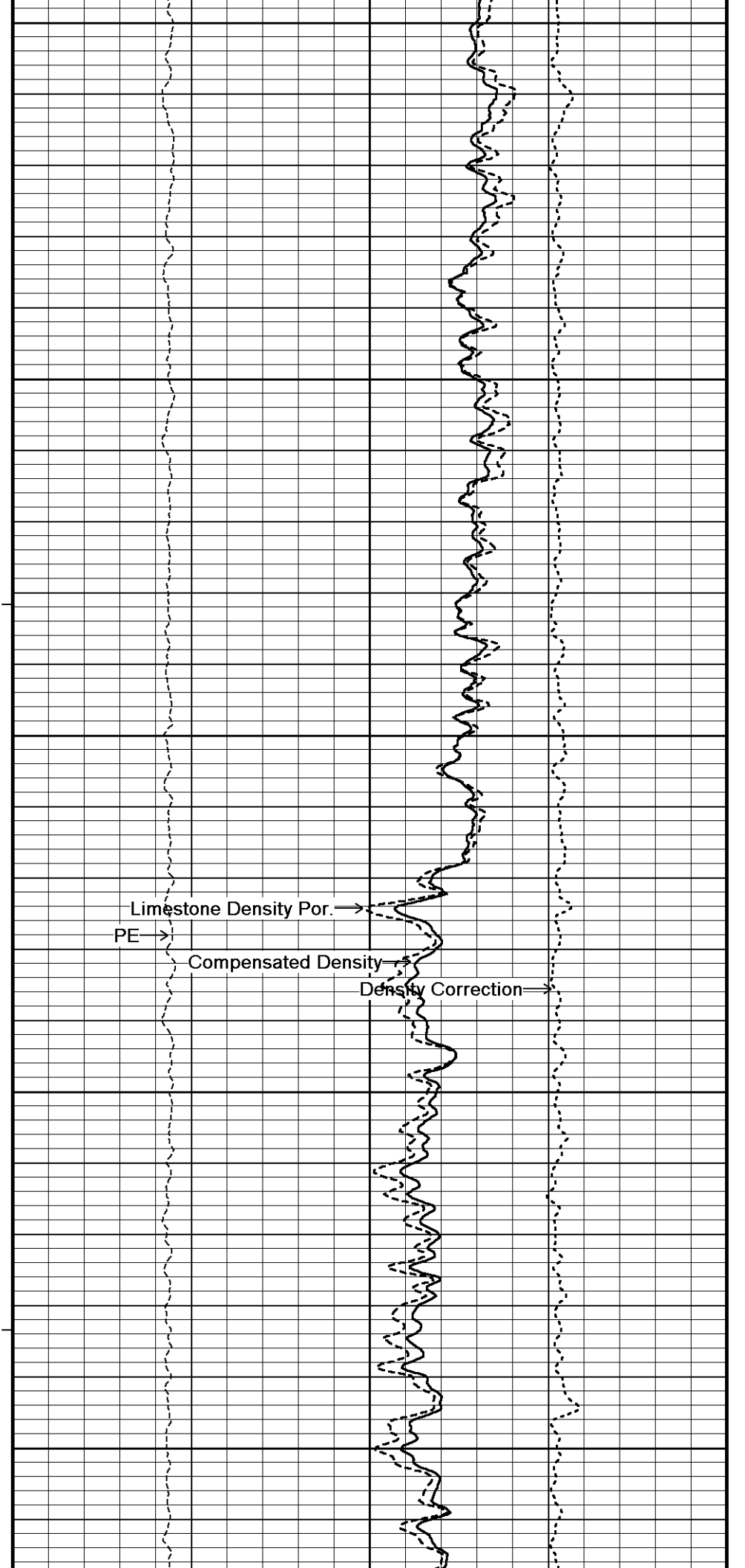
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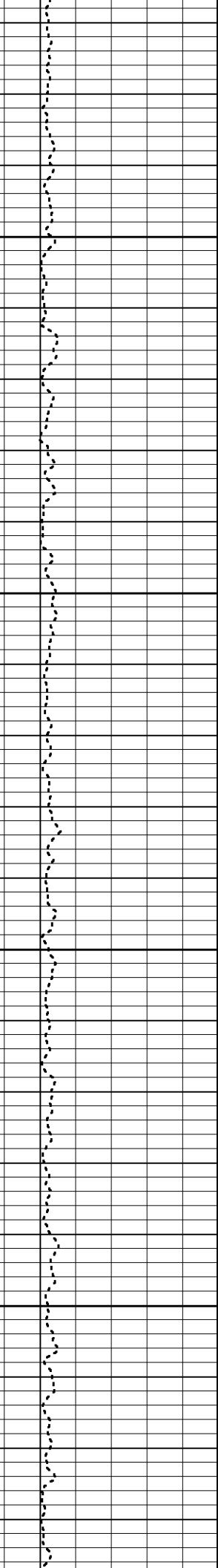
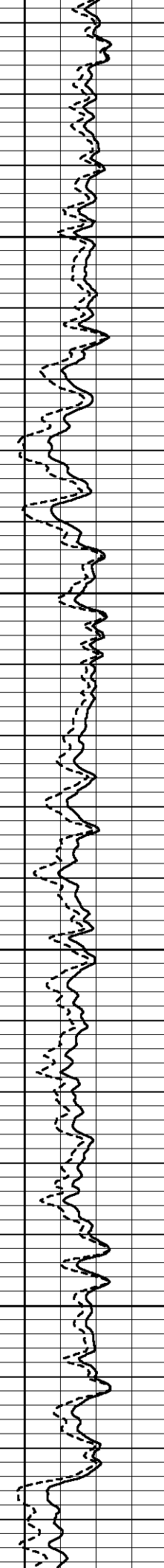
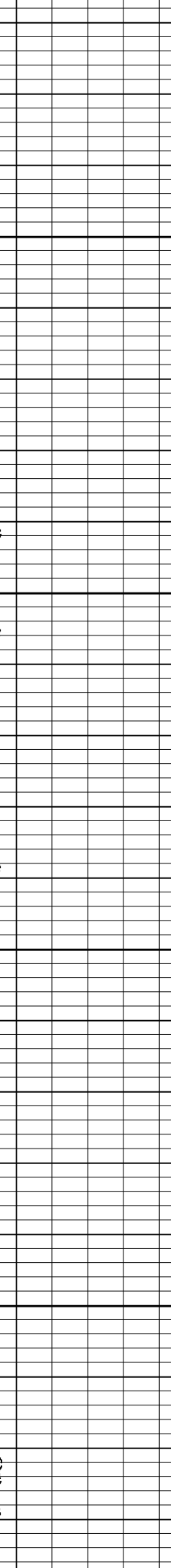
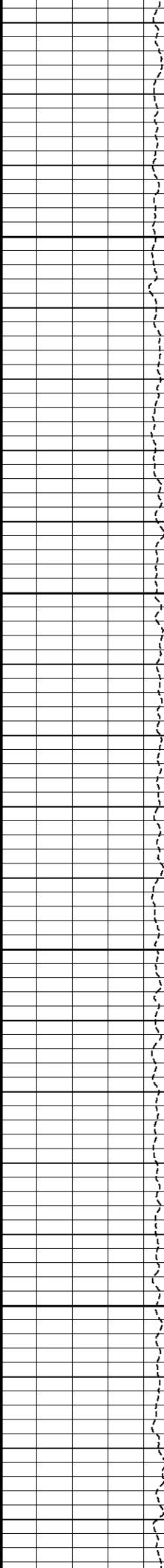
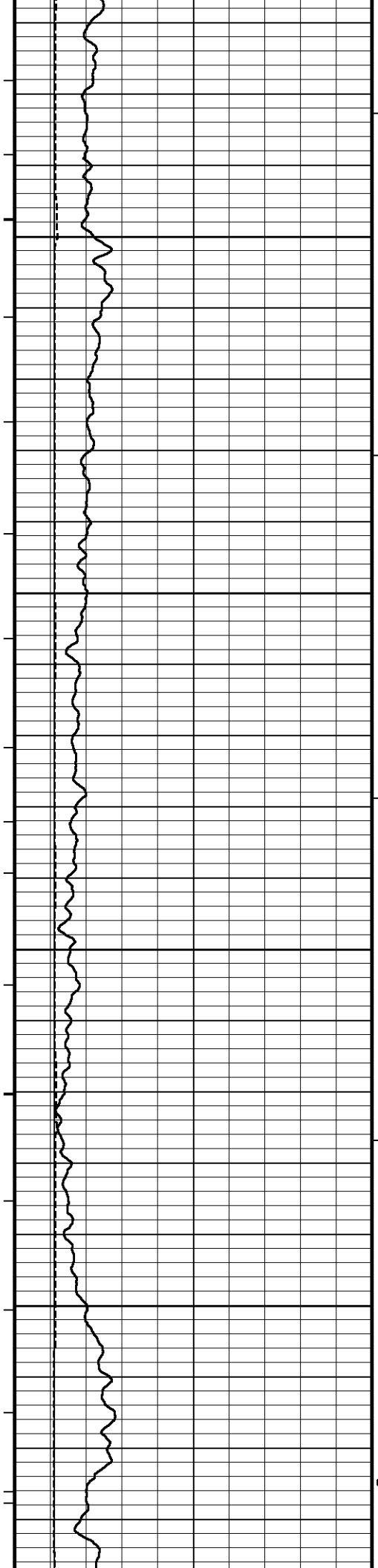


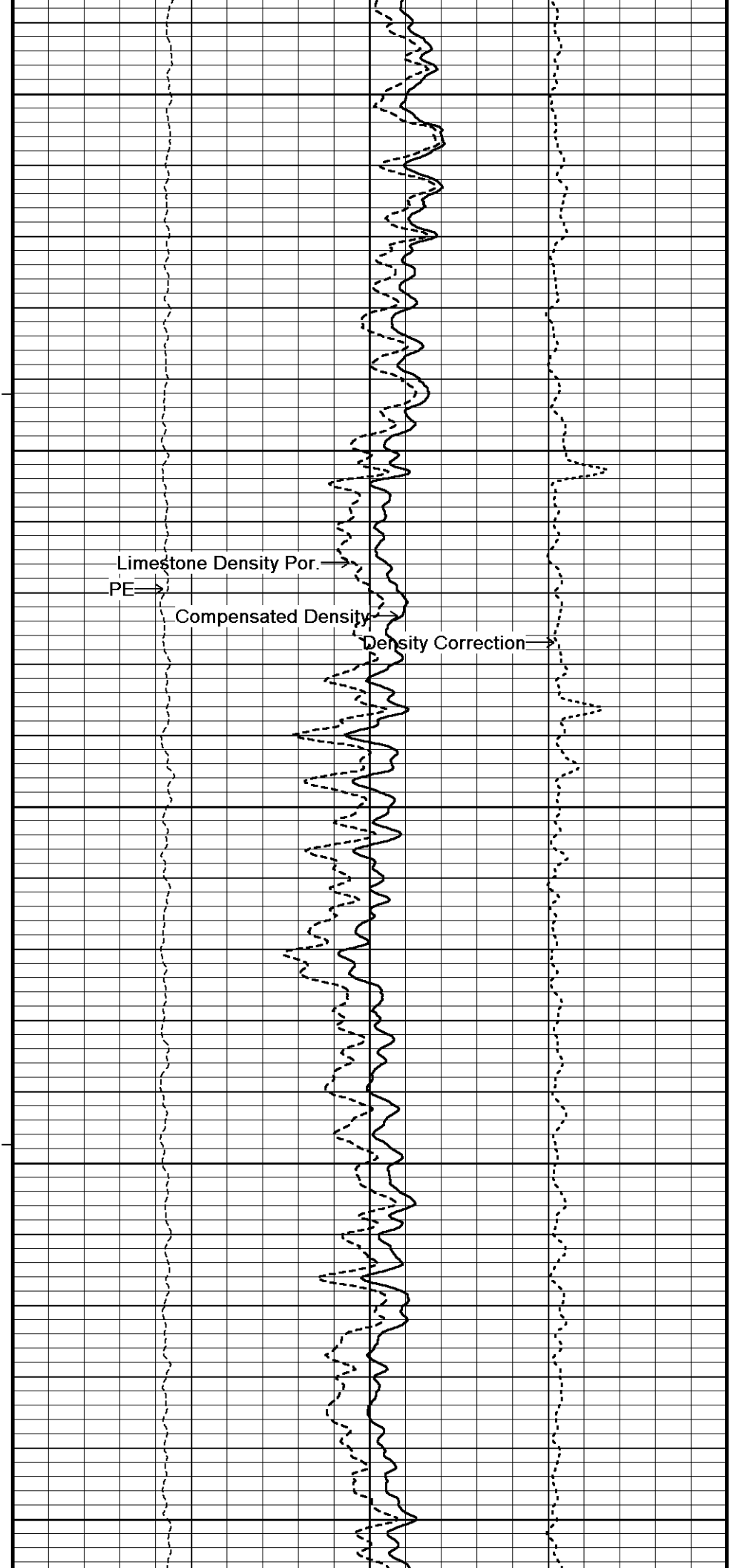
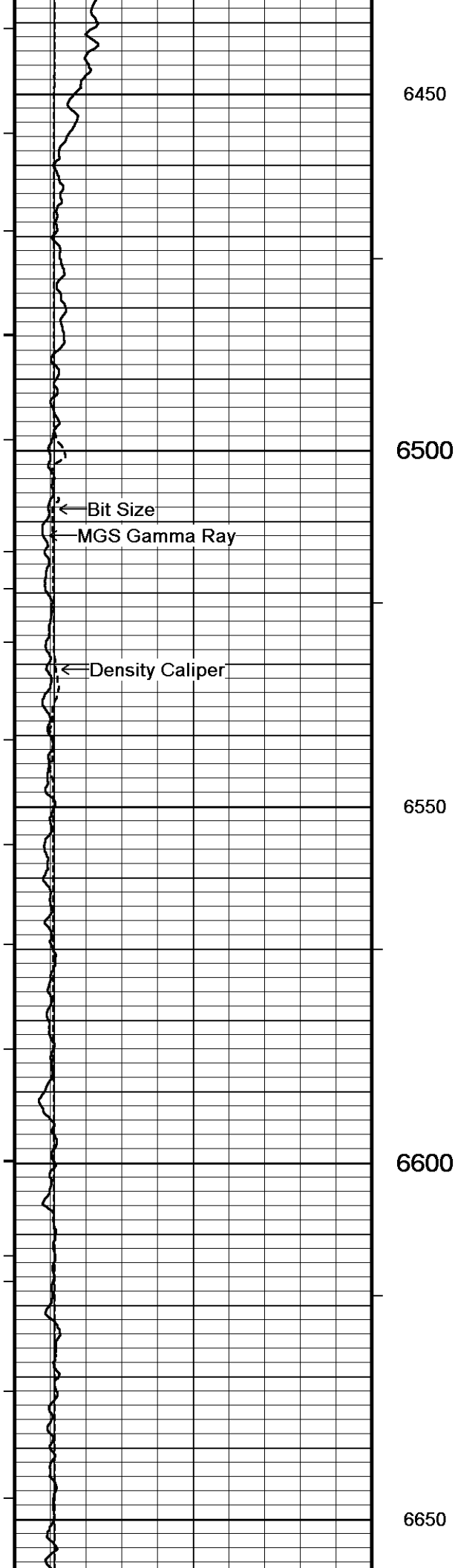
Limestone Density Por.

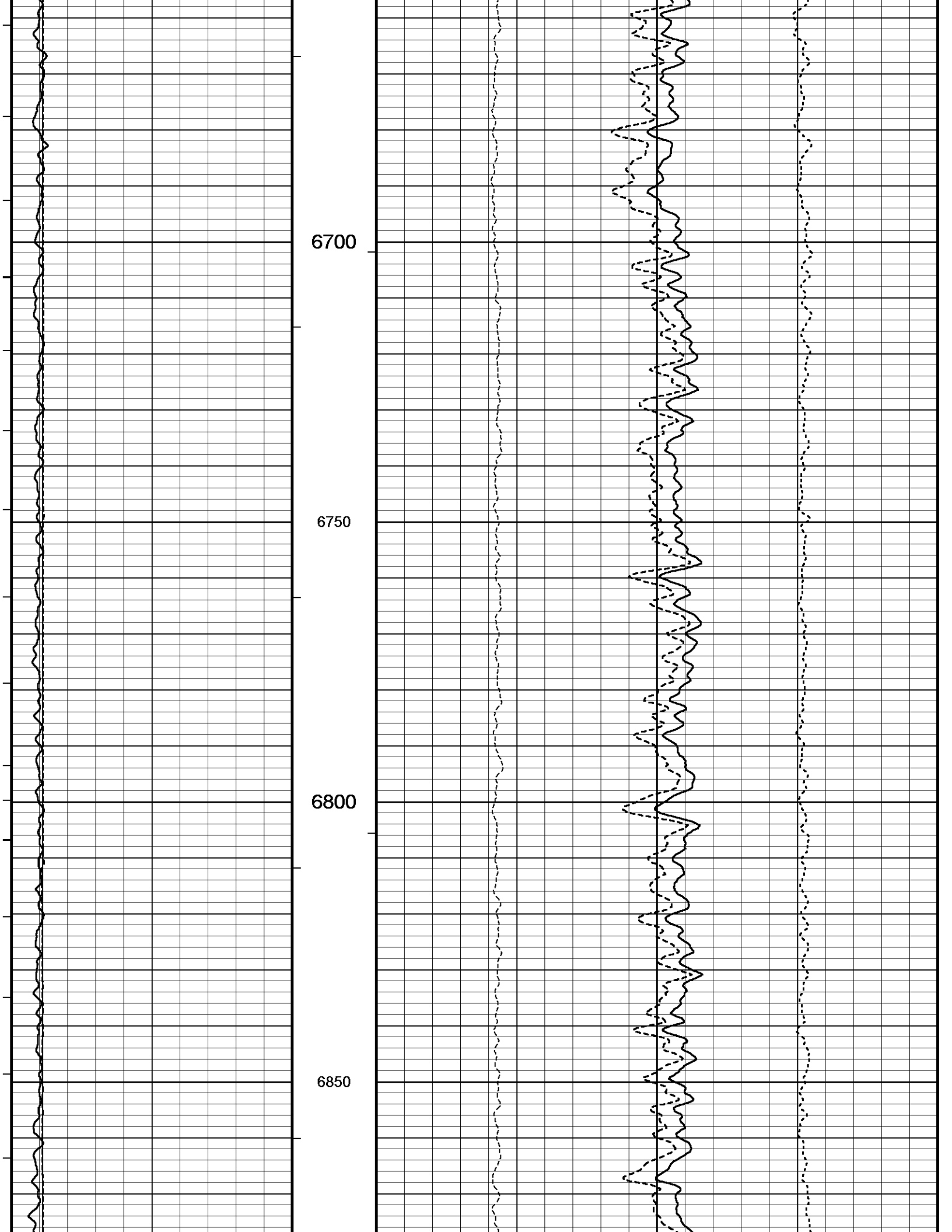
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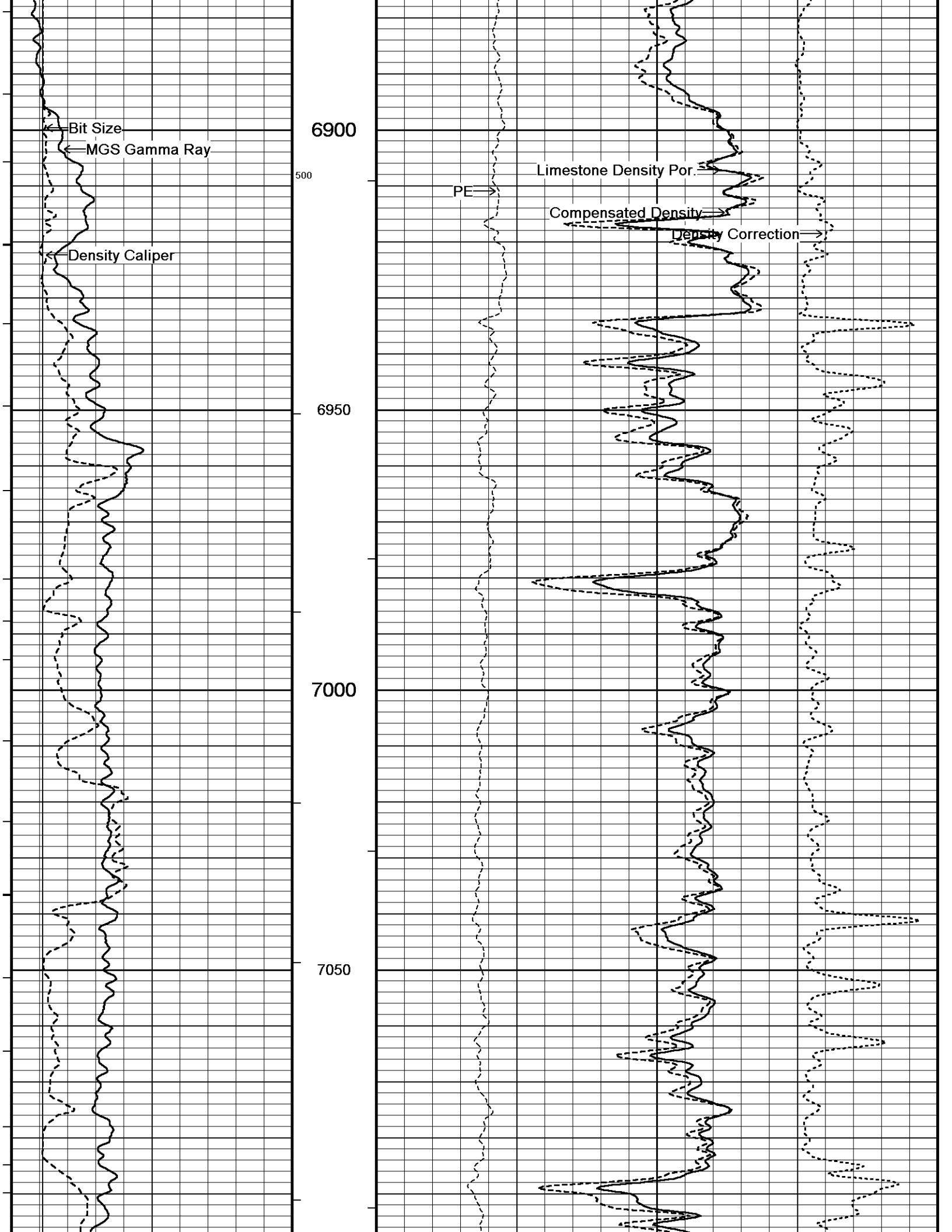
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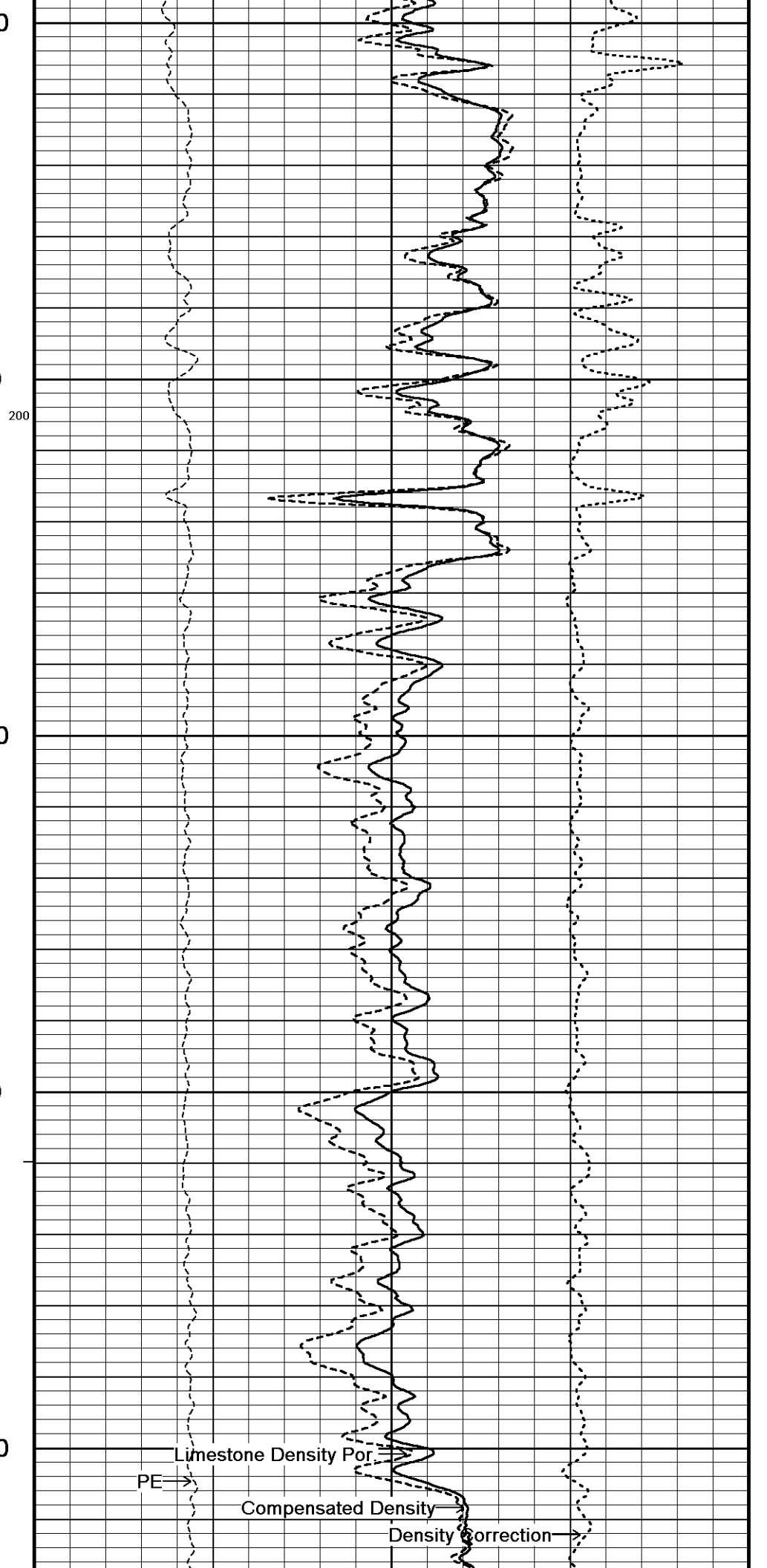
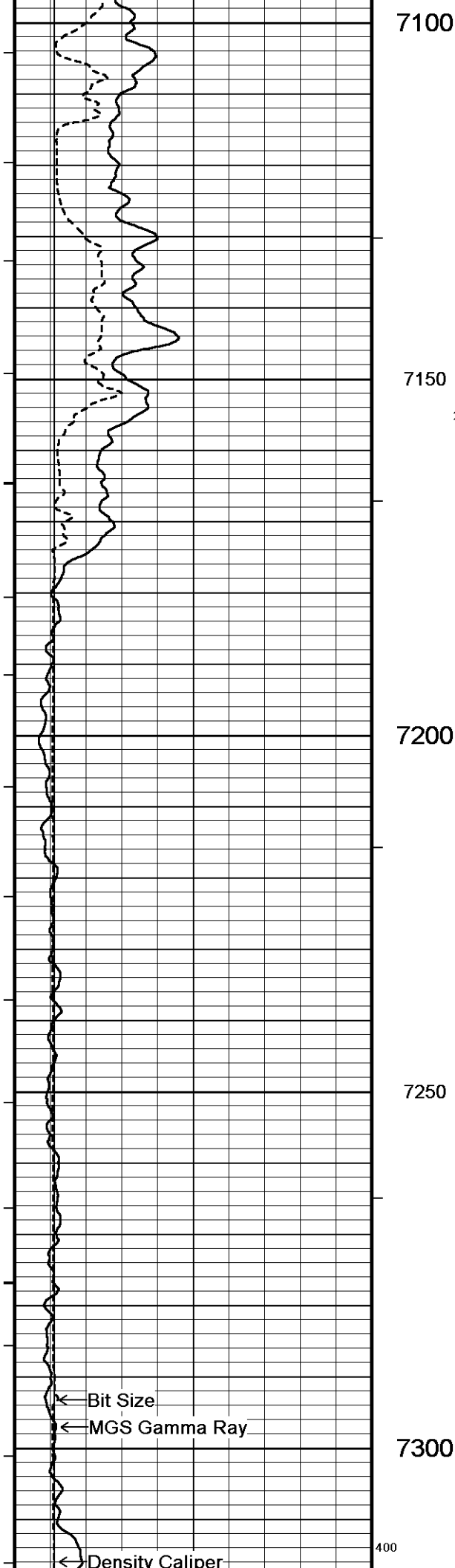
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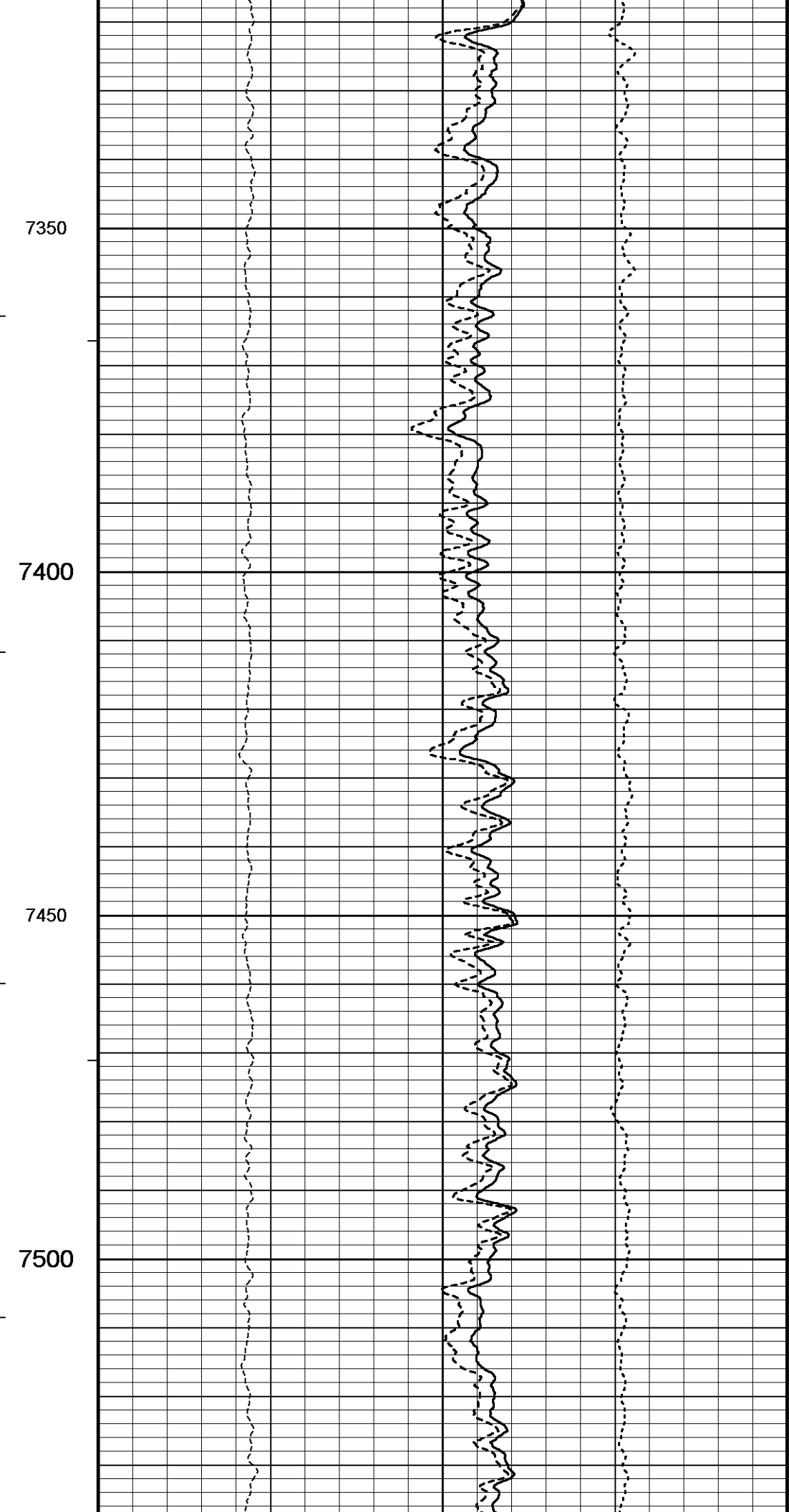
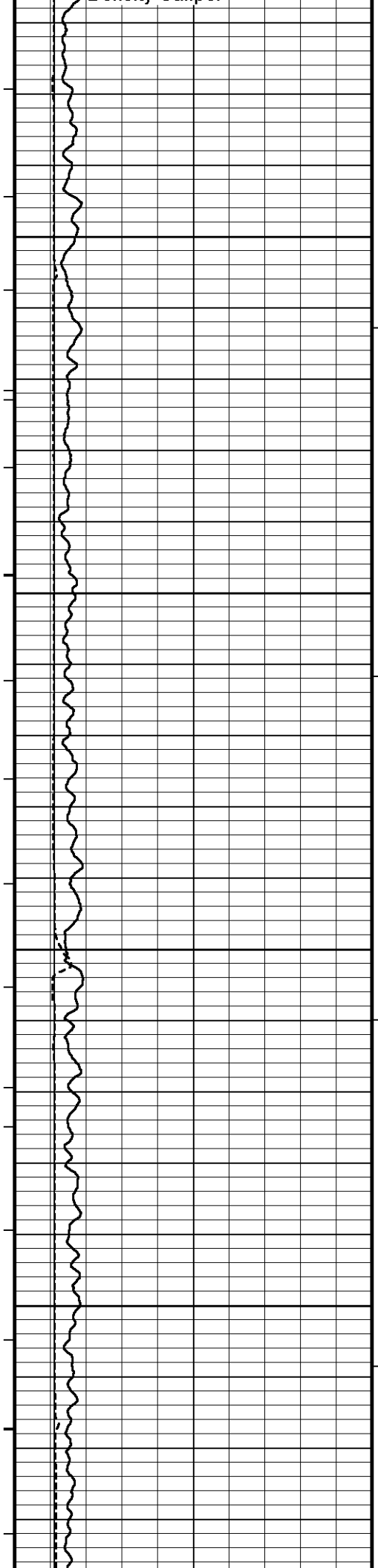


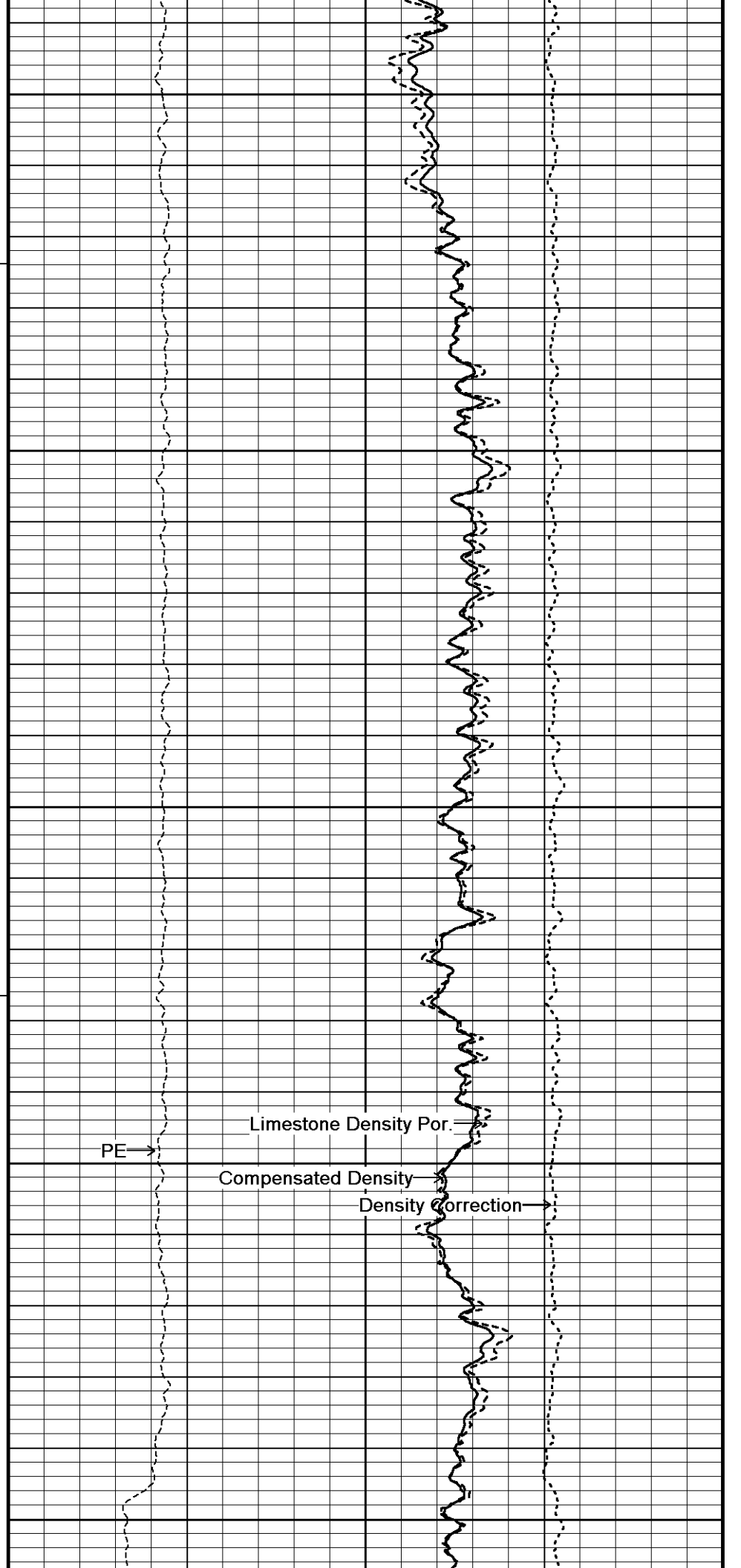
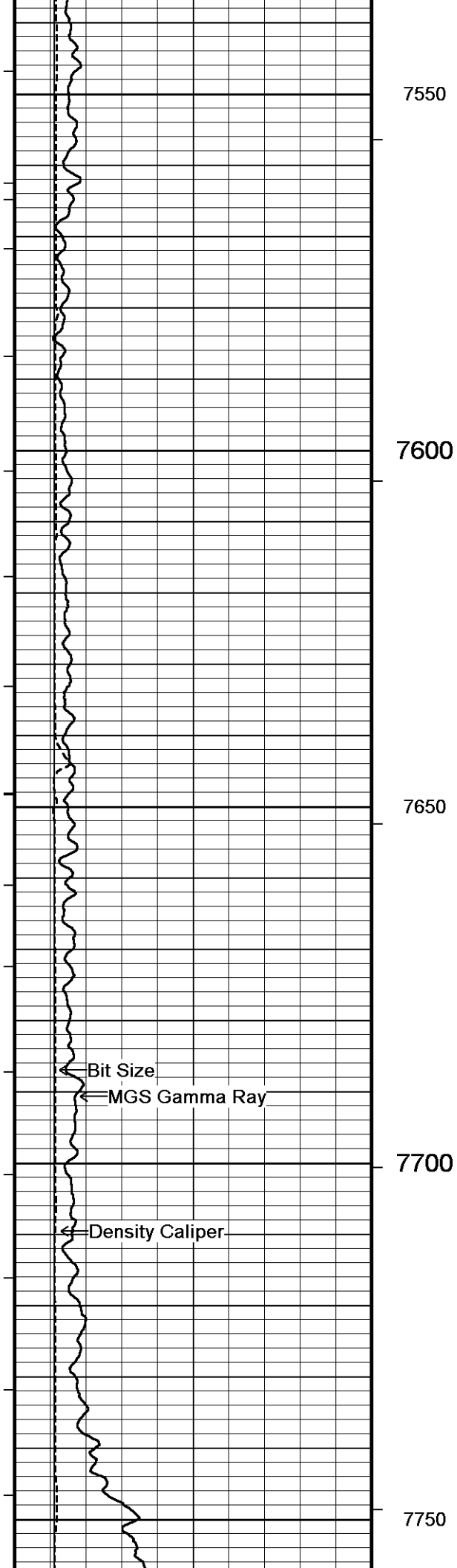


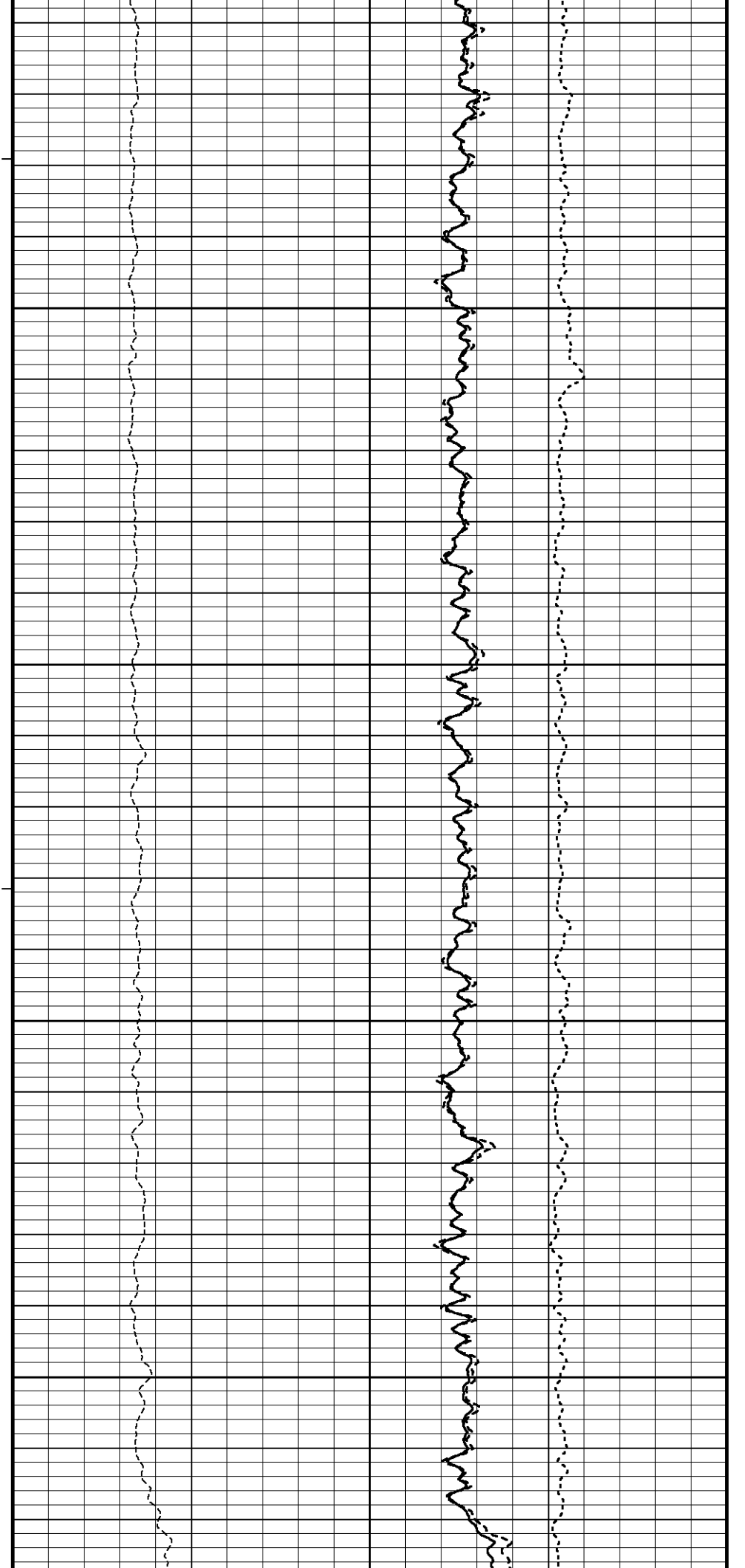
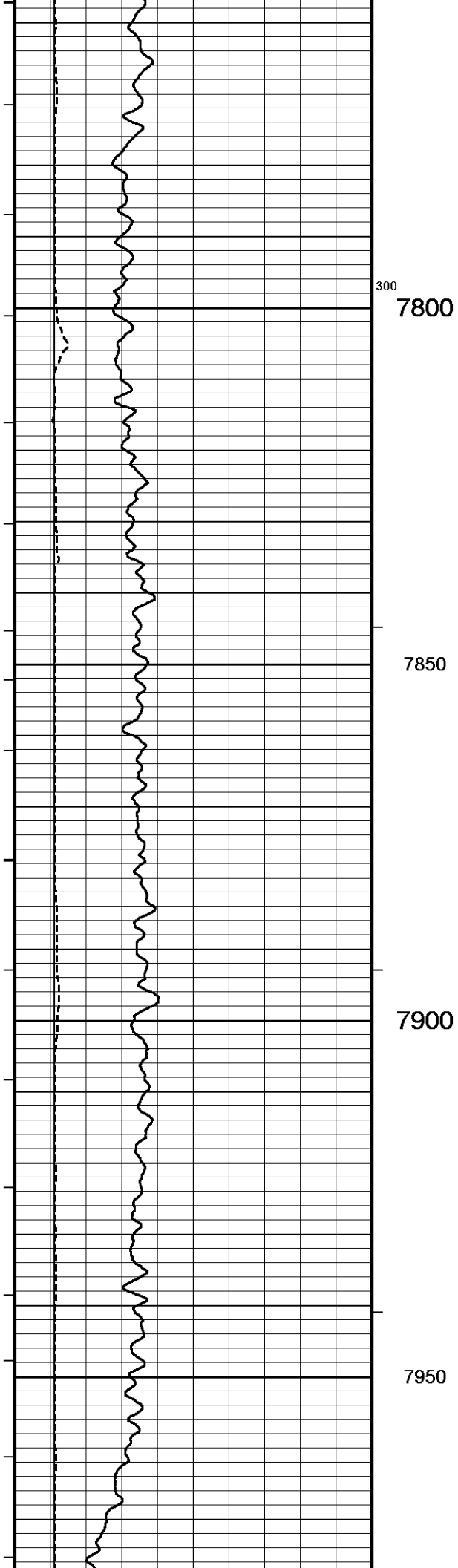


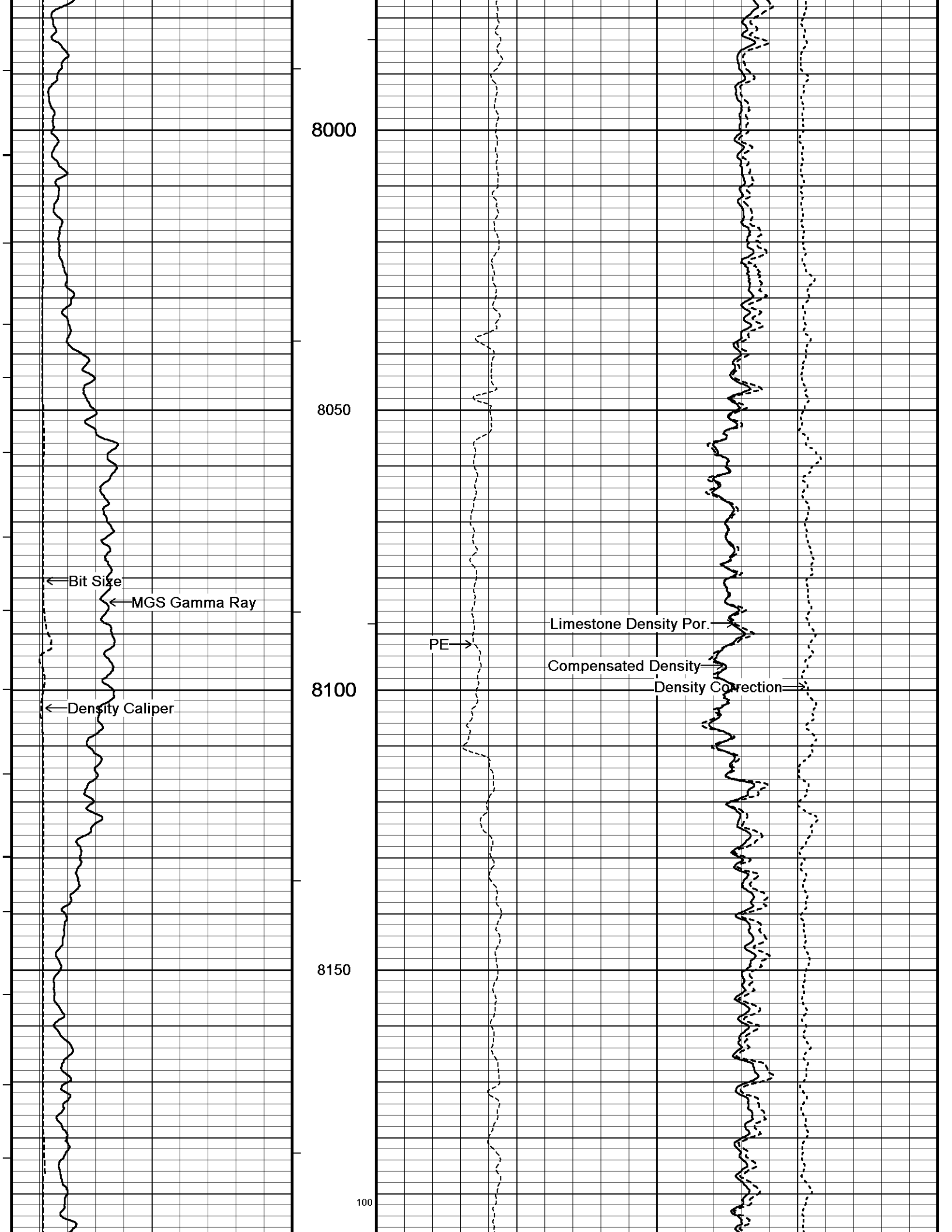


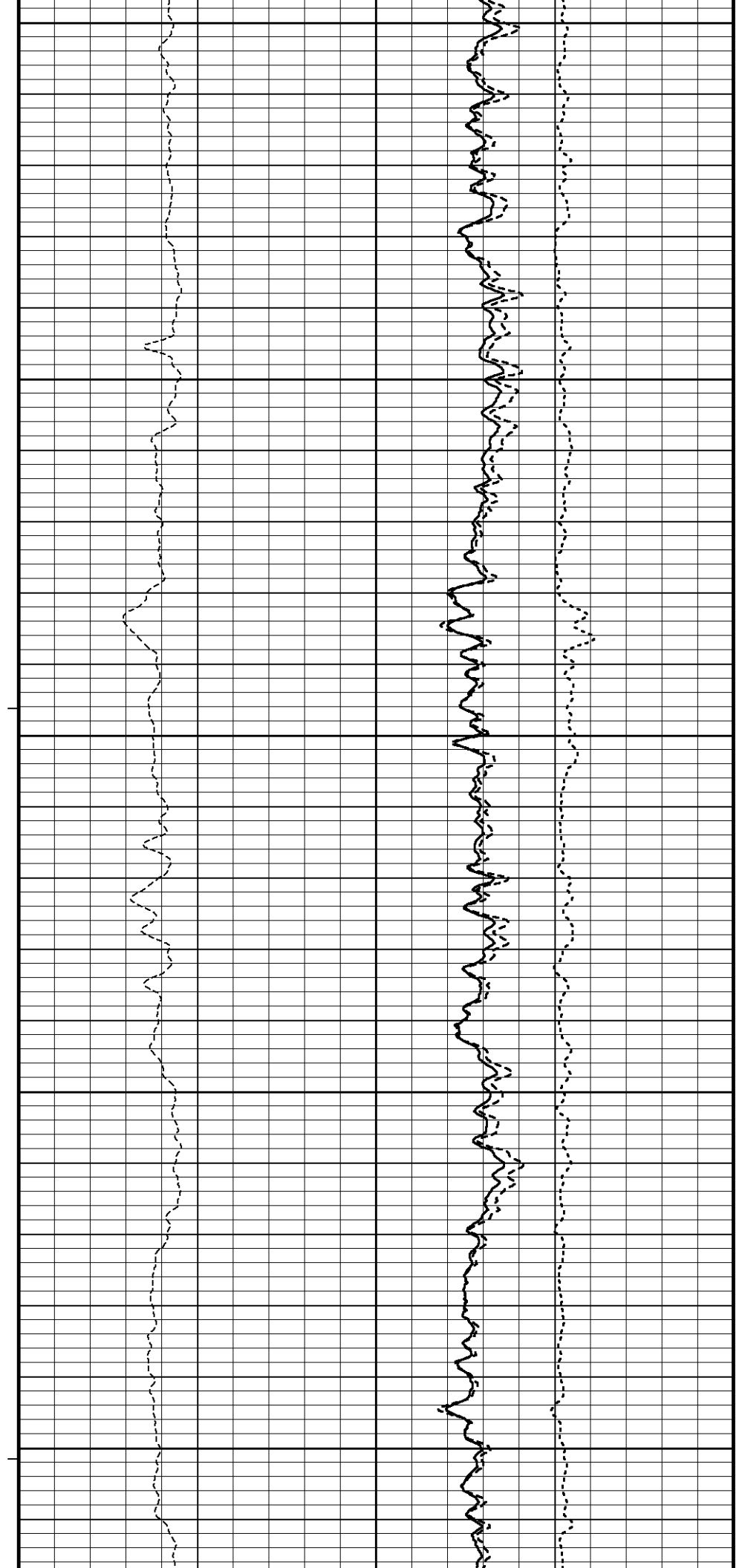
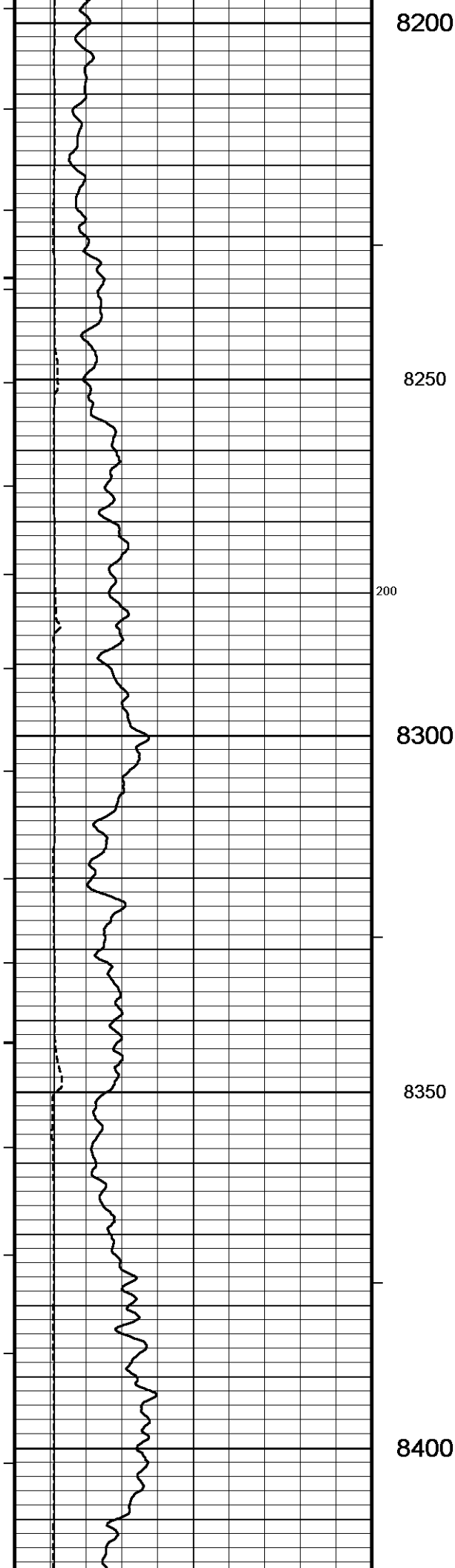


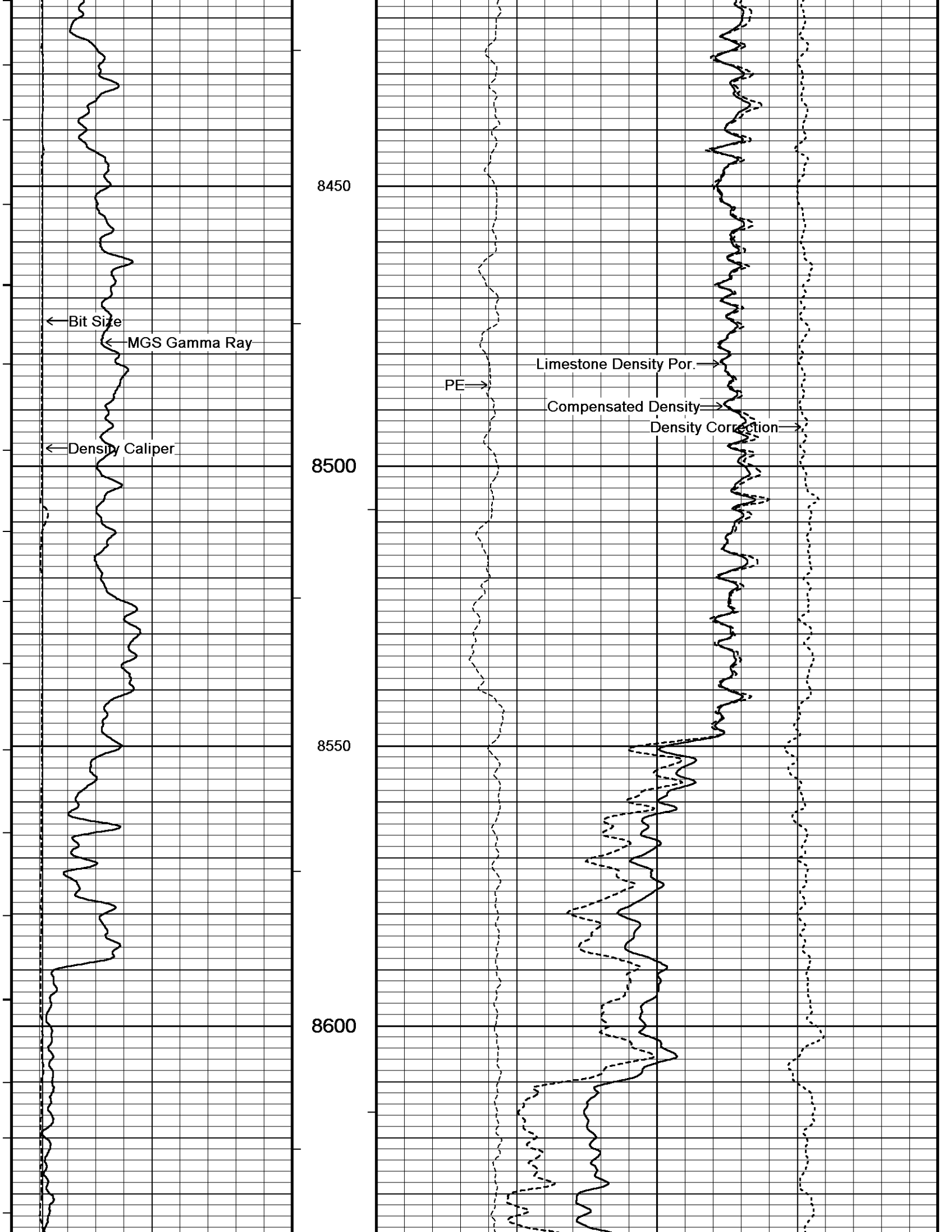


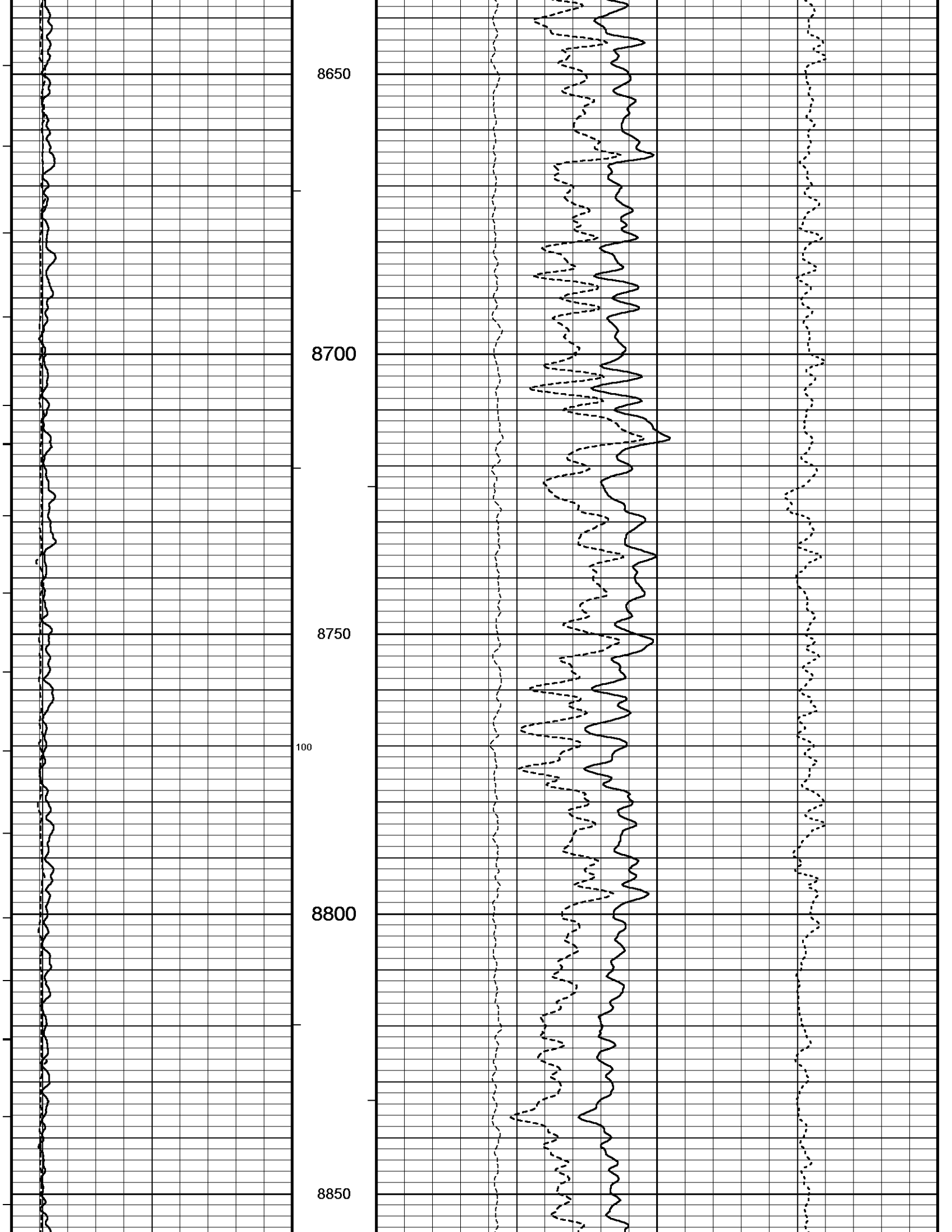


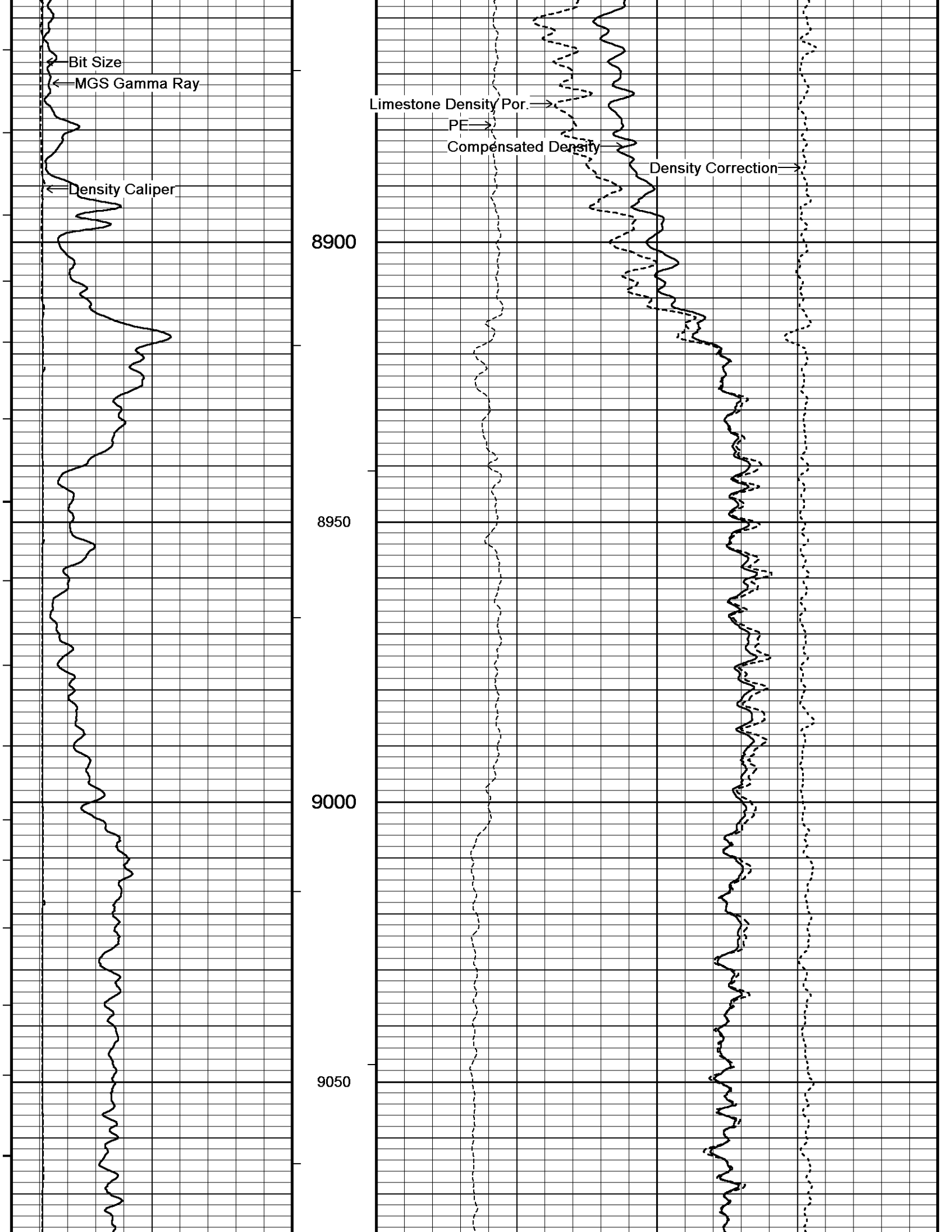


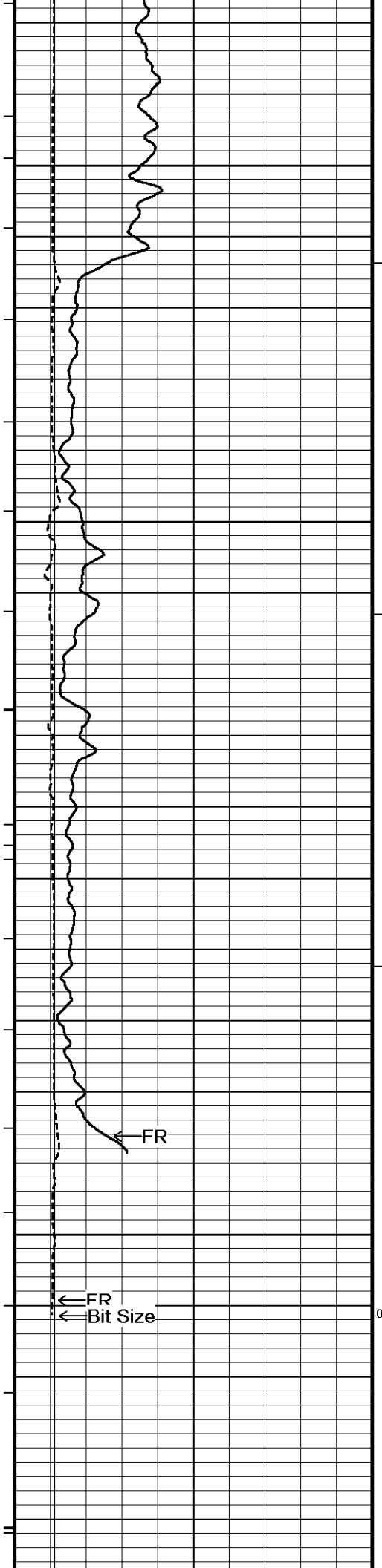




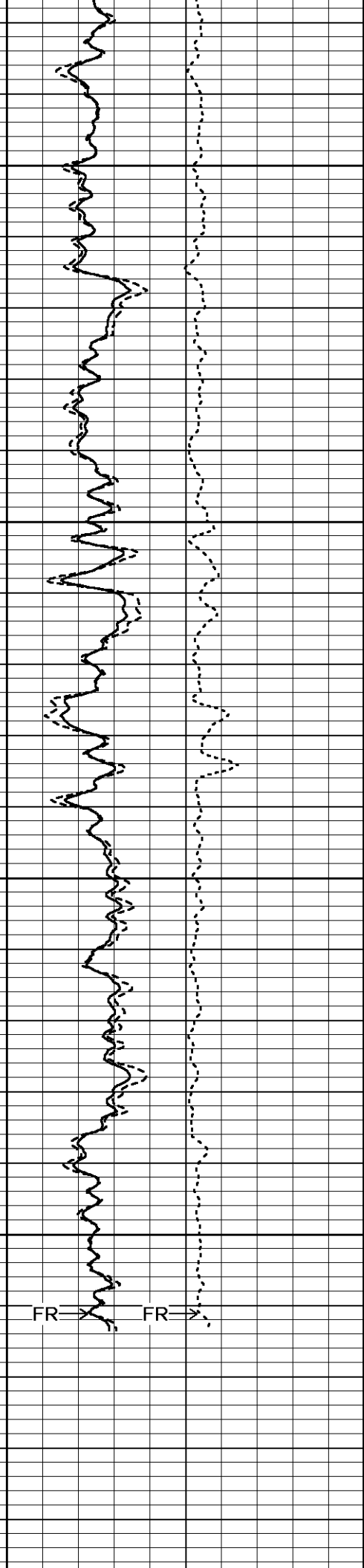
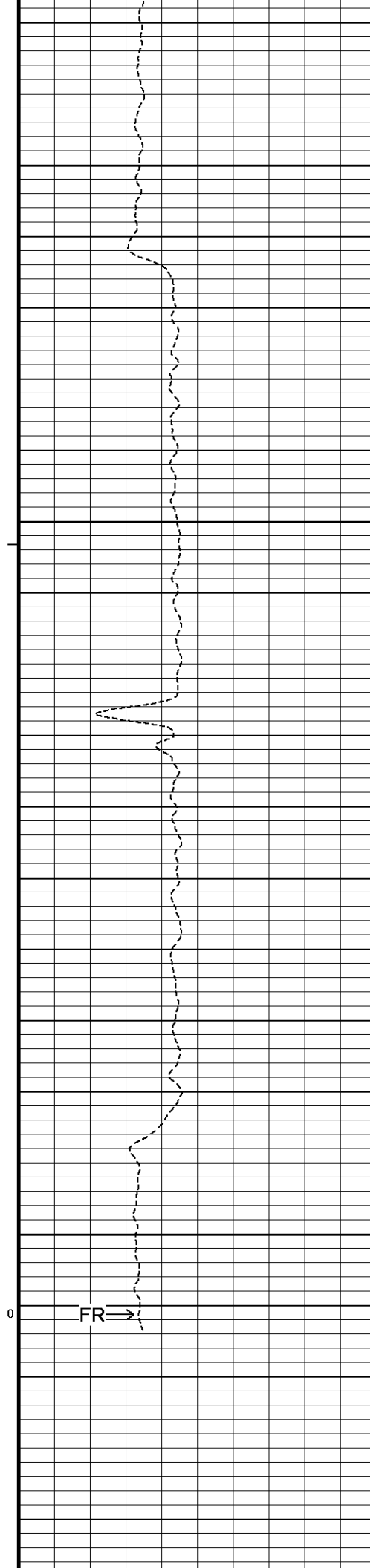


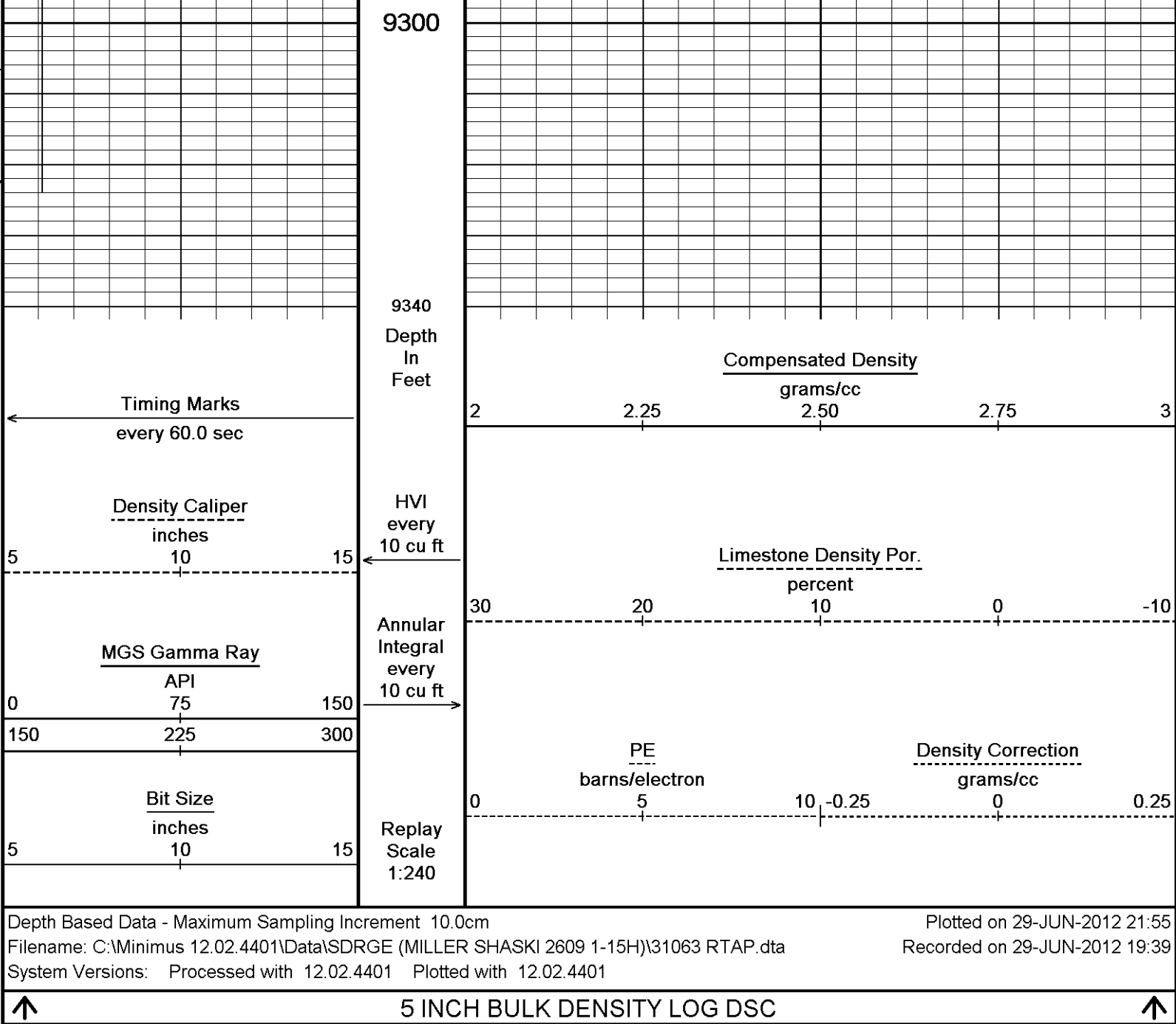






9100
9150
9200
9250
0





BEFORE SURVEY CALIBRATION			
C:\Minimus 12.02.4401\Data\SDRGE (MILLER SHASKI 2609 1-15H)\31063 RTAP.dta			
Down-hole Tension Calibration All 000			Field Calibration on 24-FEB-2009 00:00
Reading No	Measured	Calibrated (lbs)	
1	14953.75	0.00	
2	17846.38	1500.00	
General Constants All 000			Last Edited on 29-JUN-2012 21:41
General Parameters			
Mud Resistivity	0.700	ohm-metres	
Mud Resistivity Temperature	96.000	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		

Caliper for Differential Caliper		Density Caliper	
Rwa Parameters		Limestone Density Por.	
Porosity used		Array Ind. Six Res Rt	
Resistivity used		0.610	
RWA Constant A		2.150	
RWA Constant M			
Down-hole Tension Calibration SMS 0			
Field Calibration on 29-MAR-2011 00:00			
Reading No	Measured	Calibrated (lbs)	
1	15152.07	0.00	
2	19175.97	2000.00	
Gamma Calibration MGS-C.J 133			
Field Calibration on 28-JUN-2012 13:25			
	Measured	Calibrated (API)	
Background	81	56	
Calibrator (Gross)	1890	1317	
Calibrator (Net)	1810	1261	
Gamma Constants MGS-C.J 133			
Last Edited on 01-MAR-2012 00:38			
Gamma Calibrator Number	46		
Mud Density	1.01	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	
High Resolution Temperature Constants MGS-C.J 133			
Last Edited on			
Pre-filter Length	11		
Neutron Calibration MDN-B.J 390			
Base Calibration on 24-APR-2012 16:14			
Field Check on			
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near	Far
	2974 91	3714	110
Ratio	32.653	33.764	
Field Calibrator at Base			
		Calibrated (cps)	
		1236	1843
Ratio		0.671	
Field Check			
		Calibrated (cps)	
		0	0
Ratio		0.000	
Neutron Constants MDN-B.J 390			
Last Edited on 16-JUN-2012 14:17			
Neutron Source Id	P31112B		
Neutron Jig Number	5917NC		
Epithermal Neutron	No		
Caliper Source for Processing	Bit Size		
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	0.00	kpsi	
Temperature Source	Constant Value		
Temperature	68.00	degrees F	
Mud Salinity	0.00	kppm	
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		
Salinity Correction	Not Applied		
Imager Pad Check MIE-A.A 113			
Field Check on 16-AUG-2008 11:45			
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.A 113			Last Edited on 28-JUN-2012 13:25		
Sonde Configuration	Imager Mode		degrees		
Arm-Pad Kit	Normal Pads (12.25 in)				
Centre Pad 1 Rotational Offset	0.00				
Image/Borehole Ovality Reference	Relative Bearing		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				

Navigation Constants MIE-A.A 113			Last Edited on 29-DEC-2009 15:28		
Magnetic Declination	6.00	degrees	East		

Magnetometer Parameters MIE-A.A 113				
Date Of Last Magnetometer Calibration	01-JAN-1998			
	X Magnetometer	Y Magnetometer	Z Magnetometer	
Slope	-1.000000	-1.016573	-1.003898	
Offset	0.006568	-0.015949	0.006438	

Magnetometer Constants MIE-A.A 113		Last Edited on	
Magnetometer Calibrator Number	000		

Accelerometer Parameters MIE-A.A 113				
Date Of Last Accelerometer Calibration	01-JAN-1998			
	X Accelerometer	Y Accelerometer	Z Accelerometer	
Slope	-1.105490	-1.103970	-1.107420	
Offset	0.000458	0.006135	0.003353	

Accelerometer Constants MIE-A.A 113			Last Edited on 11-JUN-2009 17:18		
Accelerometer Calibrator Number		000			
Accelerometer Temperature Characterisation					
X Accelerometer					
Serial Number		282			
Calibration Date		18-Jul-2007			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	3.41234e-005	-1.69705e-008	1.28660e-010	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.70372e-004	8.31146e-007	-1.22715e-009	
Y Accelerometer					
Serial Number		284			
Calibration Date		18-Jul-2007			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	1.41306e-005	-2.62559e-009	9.20272e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.83655e-004	6.88154e-007	-5.98912e-010	
Z Accelerometer					
Serial Number		287			
Calibration Date		20-Jul-2007			
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	2.30753e-005	-5.40650e-010	3.42223e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.66160e-004	7.47858e-007	-1.03559e-009	

Caliper Calibration MIE-A.A 113			Base Calibration on 23-JUN-2008 12:29		
			Field Calibration on		

Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	24856	25276	5.07		

1	24836	23276	5.97
2	35545	35312	7.99
3	44370	44687	9.86
4	55326	56381	11.93
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	23517	25136	25351	23970	5.97
2	32111	33147	34289	33287	7.99
3	39601	41110	42395	41619	9.86
4	49214	50836	52775	51339	11.93
5	0	0	0	0	0.00

Field Calibration

Measured Pads 1-5 Caliper(in)	Measured Pads 3-7 Caliper(in)	Actual Caliper(in)		
0.00	0.00	0.00		
Measured Pad 2 Caliper(in)	Measured Pad 4 Caliper(in)	Measured Pad 6 Caliper(in)	Measured Pad 8 Caliper(in)	Actual Caliper(in)
0.00	0.00	0.00	0.00	0.00

Caliper Constants MIE-A.A 113

Last Edited on

Caliper Difference for BRKT 3.000 mm

High Resolution Temperature Calibration MAI-B.J 389

Field Calibration on 19-OCT-2011 09:44

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

High Resolution Temperature Constants MAI-B.J 389

Last Edited on

Pre-filter Length 11

Induction Calibration MAI-B.J 389

Base Calibration on 28-JUN-2012 13:12

Field Check on 28-JUN-2012 13:14

Base Calibration

Test Loop Calibration

Channel	Low	High	Low	High
1	16.7	465.5	9.3	966.2
2	6.4	384.0	7.6	821.4
3	3.1	258.9	5.2	566.0
4	1.8	133.7	2.6	279.2

Array Temperature 78.1 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	16.3	3895.4
2	0.0	0.0	30.6	3506.0
3	0.0	0.0	30.3	3047.0
4	0.0	0.0	20.3	2061.6
Deep	0.0	0.0	19.8	2011.6
Medium	0.0	0.0	43.5	4000.5
Shallow	0.0	0.0	44.0	5148.0

Array Temperature 0.0 92.7 Deg F

Induction Constants MAI-B.J 389

Last Edited on 29-JUN-2012 20:24

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.	Borehole Temp. Unfilt.
Squasher Start	0.0020 mhos/metre

Squasher Offset

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	

Caliper Calibration MPD-C.J 393

Base Calibration on 28-JUN-2012 13:21

Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16224	4.01
2	24416	5.96
3	32900	7.98
4	41094	9.86
5	50128	11.88
6	N/A	N/A

Field Calibration

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

Photo Density Calibration MPD-C.J 393

Base Calibration on 28-JUN-2012 13:15

Field Check on 28-JUN-2012 13:20

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	58016	27308	59869	31110
Reference 2	24483	2694	24557	2522

Field Check at Base

1260.5 1380.6

Field Check

1230.1 1348.4

PE Calibration

Base Calibration	Measured		Calibrated
	WS	WH	Ratio
Background	235	1137	
Reference 1	23358	57816	0.408
Reference 2	6927	24347	0.288

Field Check at Base

235.4 1137.5

Field Check

228.2 1109.5

Density Constants MPD-C.J 393

Last Edited on 22-JUN-2012 20:18

Density Source Id

p31112b

Nylon Calibrator Number

18006

Nylon Calibrator Number	18006	
Aluminium Calibrator Number	18006	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.13	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	0.00

DOWNHOLE EQUIPMENT

C:\Minimus 12.02.4401\Data\SDRGE (MILLER SHASKI 2609 1-15H)\31063 RTAP.dta

RUNNING TOOL

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

Empty MBS Ext

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

Empty MBS Ext

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

SKJ-D Compact Knuckle Joint

SKJ-D 30 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-G.A 200v Compact Battery Sub

MBS-G.A 119 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B

MMS-E.B 167 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.A Compact Knuckle Joint

SKJ-E.A 185 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor

SHA-J.A 451 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub

MIS-D.A 596 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron

MDN-B.J 390 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

MPD-C.J 393 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in



MIS-A.A Compact Inline Bowspring sub
MIS-A.A 277 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 270 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 472 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub
MIS-E.B 578 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 455 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub
MIS-A.A 62 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section
MIM-A.A 233 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

Compact MMI Electrode Section
MIE-A.A 113 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

MIS-E.B Compact Inline Standoff sub
MIS-E.B 573 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction
MAI-B.J 389 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

Total Length: 146.63 ft Weight: 910.5 lb



Tool Zero (1.84ft from bottom)
All measurements relative to tool zero.

COMPANY	SANDRIDGE ENERGY
WELL	MILLERSHASKI 2629 1-15H
FIELD	INGALLS SOUTH
PROVINCE/COUNTY	GRAY
COUNTRY/STATE	USA / KANSAS

Elevation Kelly Bushing	2760.00	feet	First Reading	9260.00	feet
Elevation Drill Floor	2760.00	feet	Depth Driller	9346.00	feet
Elevation Ground Level	2741.00	feet	Depth Logger	9346.00	feet



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