



**Weatherford**<sup>®</sup>

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

COMPANY SANDRIDGE ENERGY  
 WELL ANITA 3420 2-12H  
 FIELD COMANCHE PROSPECT  
 PROVINCE/COUNTY COMANCHE  
 COUNTRY/STATE USA / KANSAS  
 LOCATION 250' FNL & 700' FEL  
 NE NW NE NE

SEC 12 TWP 34S RGE 20W Other Services MAI  
 API Number 15-033-21703  
 Permit Number  
 Permanent Datum G.L., Elevation 1795 feet  
 Log Measured From DF  
 Drilling Measured From DF @ 21 FEET

Elevations: feet  
 KB 1816.00  
 DF 1816.00  
 GL 1795.00

Date	22-APR-2013
Run Number	ONE
Service Order	3539486
Depth Driller	9535.00 feet
Depth Logger	9535.00 feet
First Reading	9462.00 feet
Last Reading	4000.00 feet
Casing Driller	5690.00 feet
Casing Logger	5690.00 feet
Bit Size	6.125 inches
Hole Fluid Type	WATER
Density / Viscosity	8.50 lb/USg 28.00 CP
PH / Fluid Loss	10.70 100.00 ml/30Min
Sample Source	FLOWLINE
Rm @ Measured Temp	1.90 @ 67.0 ohm-m
Rmf @ Measured Temp	1.52 @ 67.0 ohm-m
Rmc @ Measured Temp	2.28 @ 67.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	0.91 @140.0 ohm-m
Time Since Circulation	1 HOUR
Max Recorded Temp	140.00 deg F
Equipment / Base	18109 OKC
Recorded By	B.ALLEN
Witnessed By	M.RODEN
AFE# / S.O.	DC12852 3539486

### BOREHOLE RECORD

Last Edited: 22-APR-2013 14:47

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	732.00
8.750	732.00	5690.00
6.125	5690.00	9535.00

### REMARKS

LOGGED WITH WLS VER 13.05.9583 SOFTWARE

WELL LOGGED USING MESSENGER METHOD OF DEPLOYMENT, AND MEMORY LOGGING SYSTEM

HARDWARE: MAI: ISA STANDOFF BELOW

MPD: 4"PROFILE PLATE, MIS-A SINGLE SPRING DECENTRALIZER BELOW

MDN: MISD DOUBLE SPRING DECENTRALIZER RAN ABOVE

2.71 G/CC DENSITY MATRIX USED TOCALCULATE POROSITY

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER REQUEST

DRILL PIPE DEPTH DURING DEPLOYMENT - 9411

LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9494

4.5" CASING USED TO CALCULATE AHV

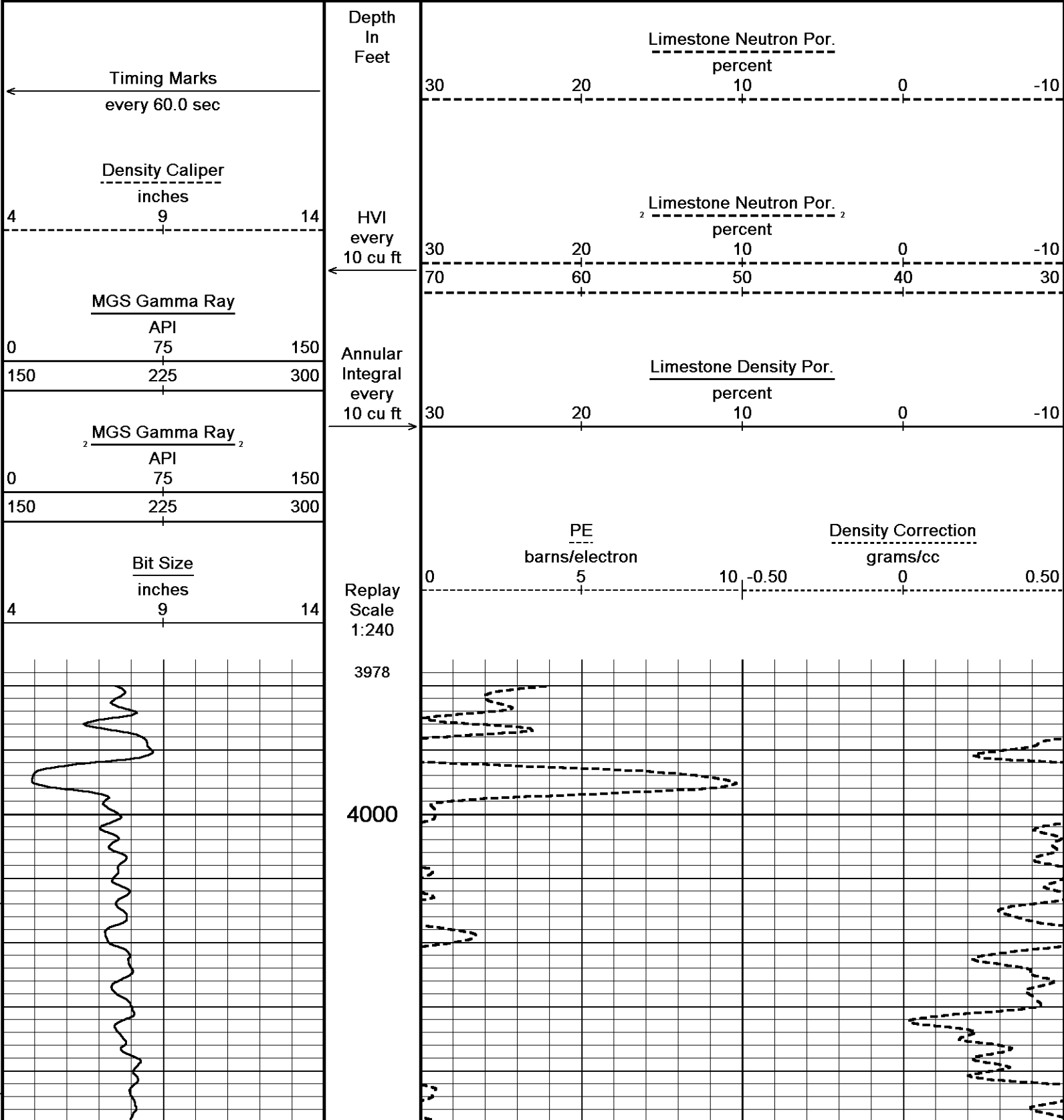
SERVICE ORDER # 3539486

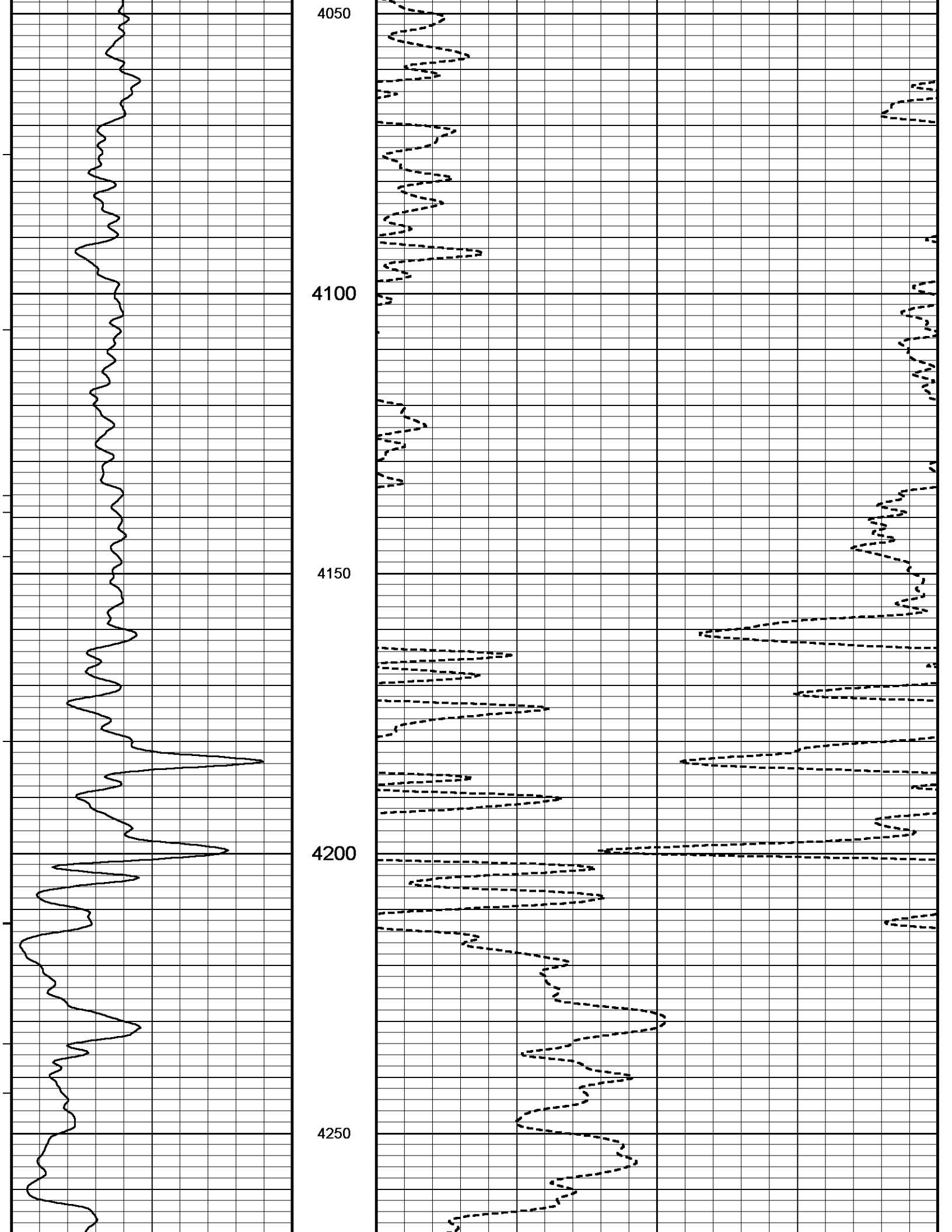
RIG: LARIAT 4

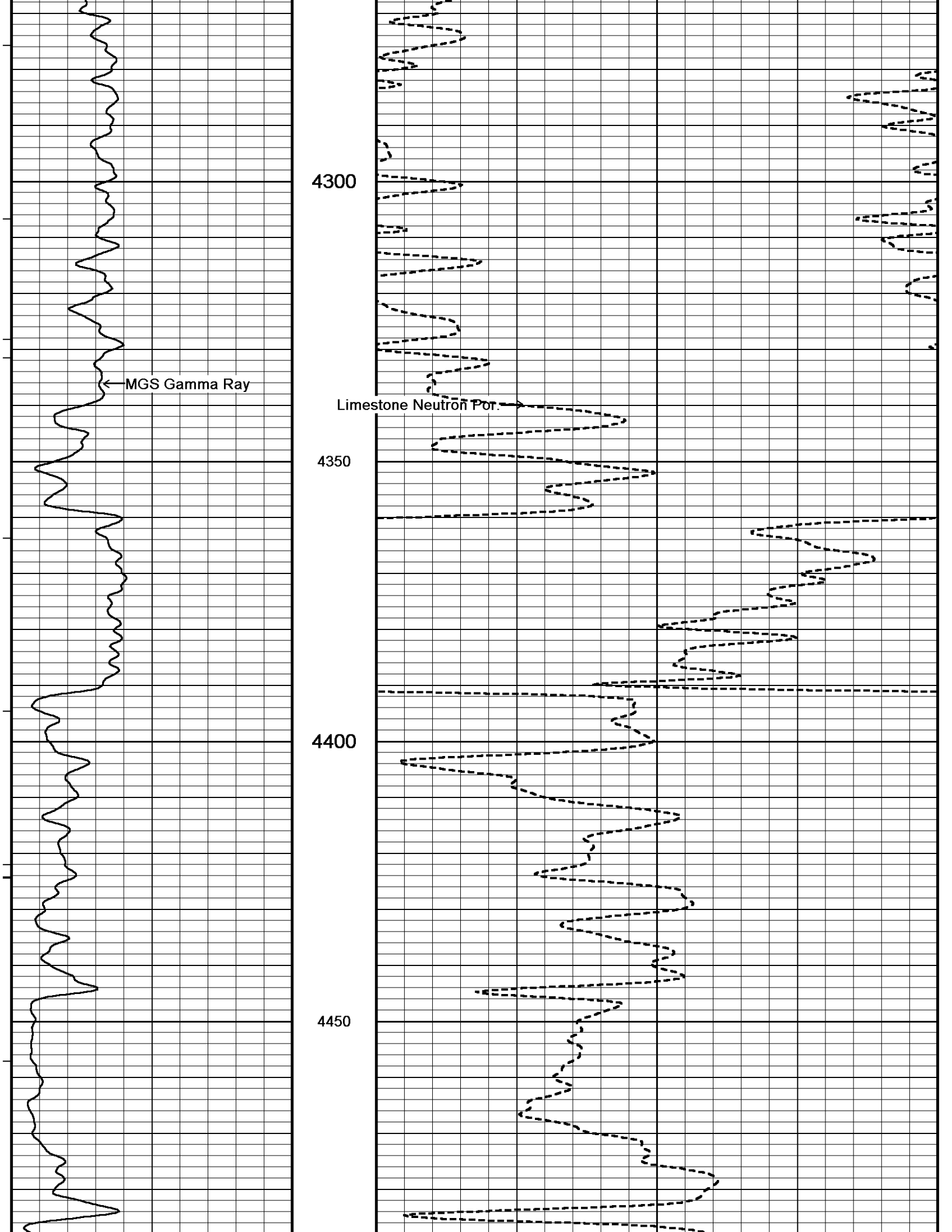
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

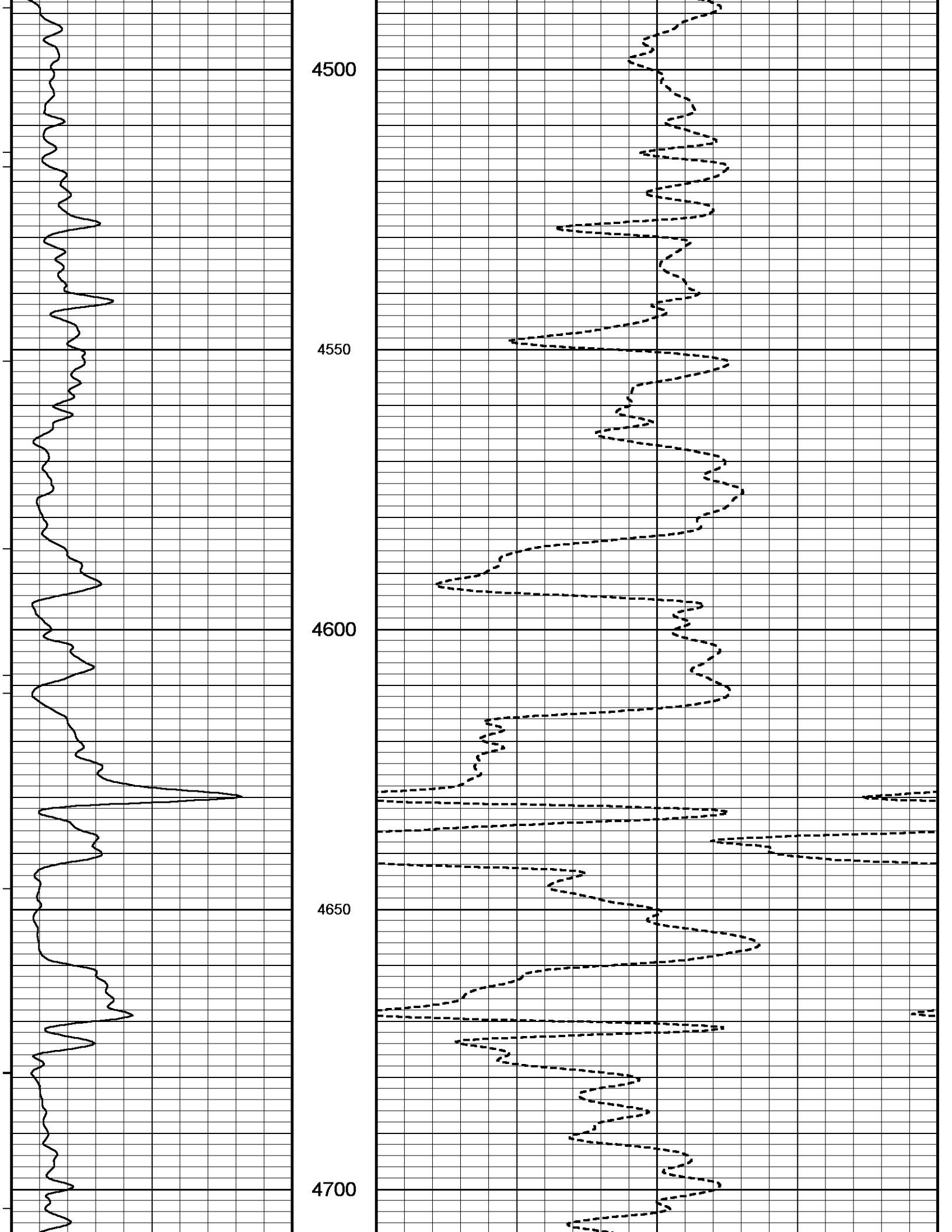
**5 INCH MAIN PASS**

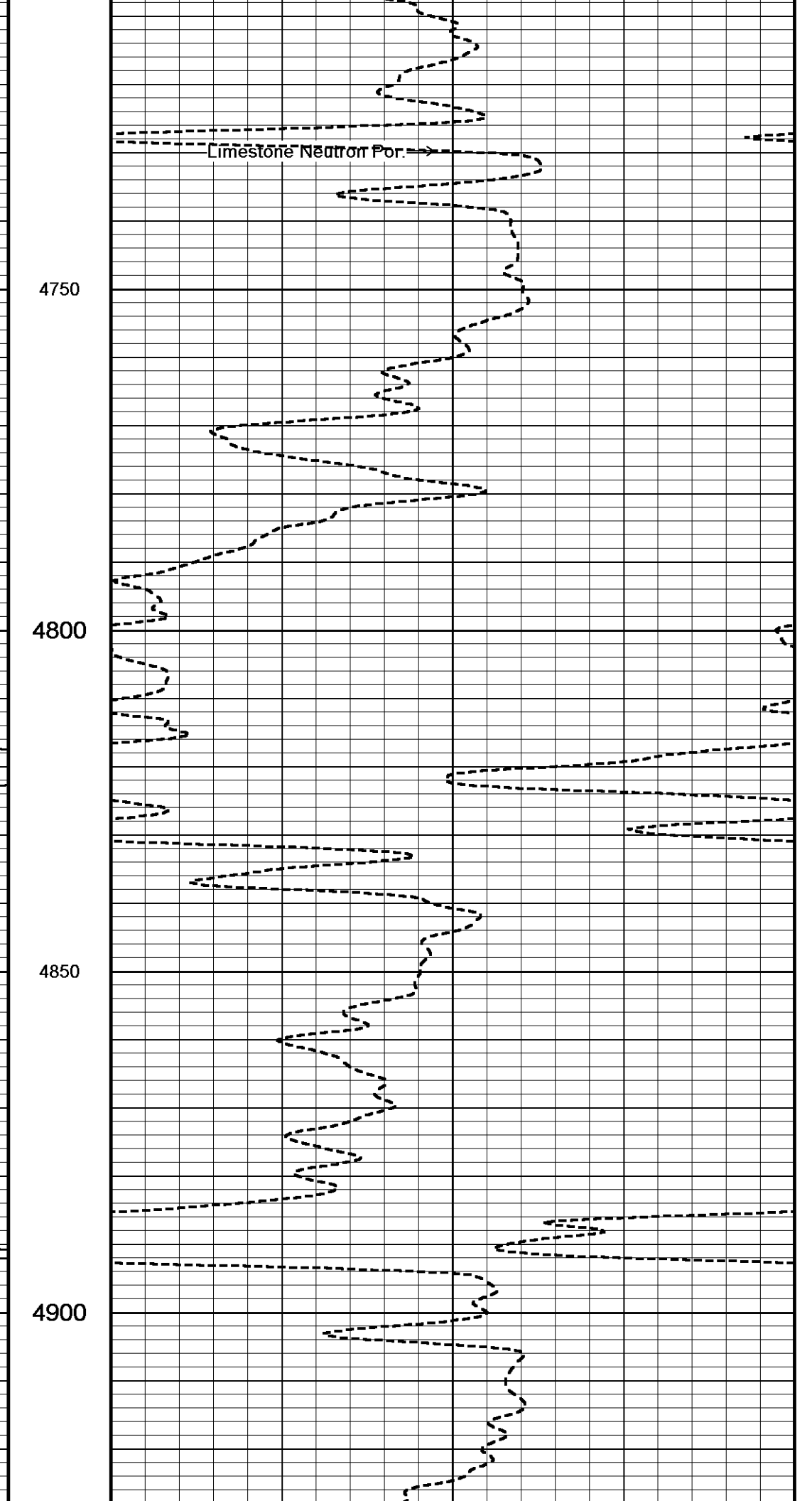
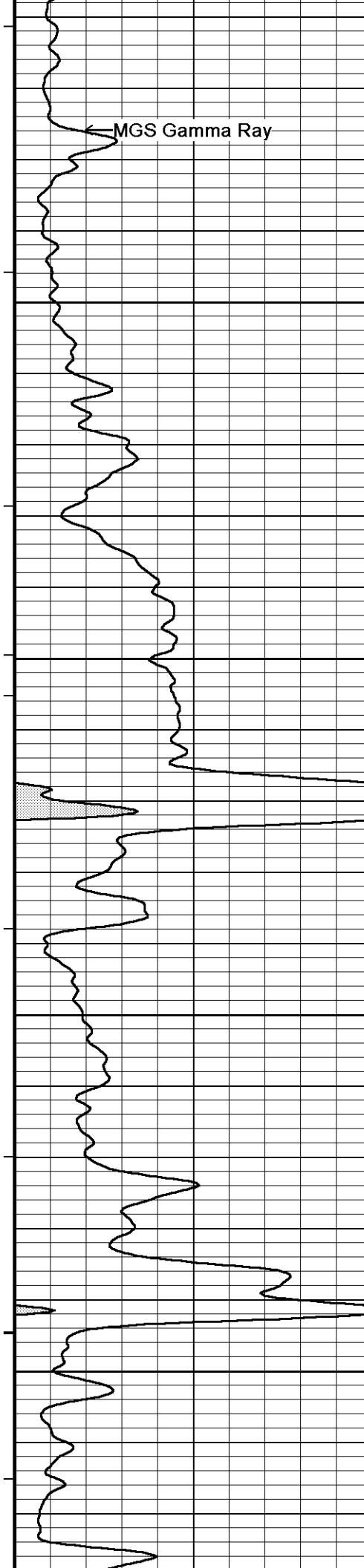
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 System Versions: Processed with 13.05.9583 Plotted with 13.05.9583

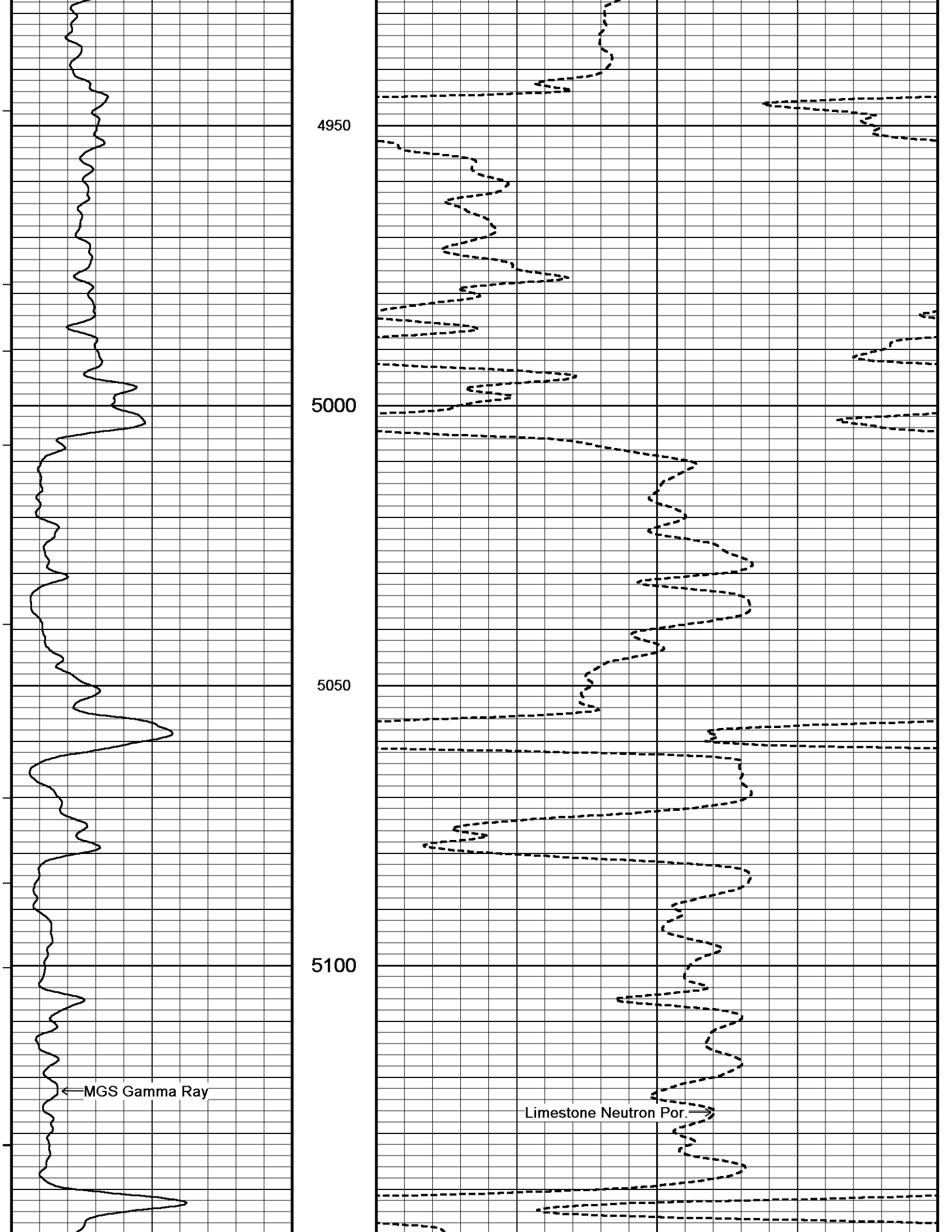












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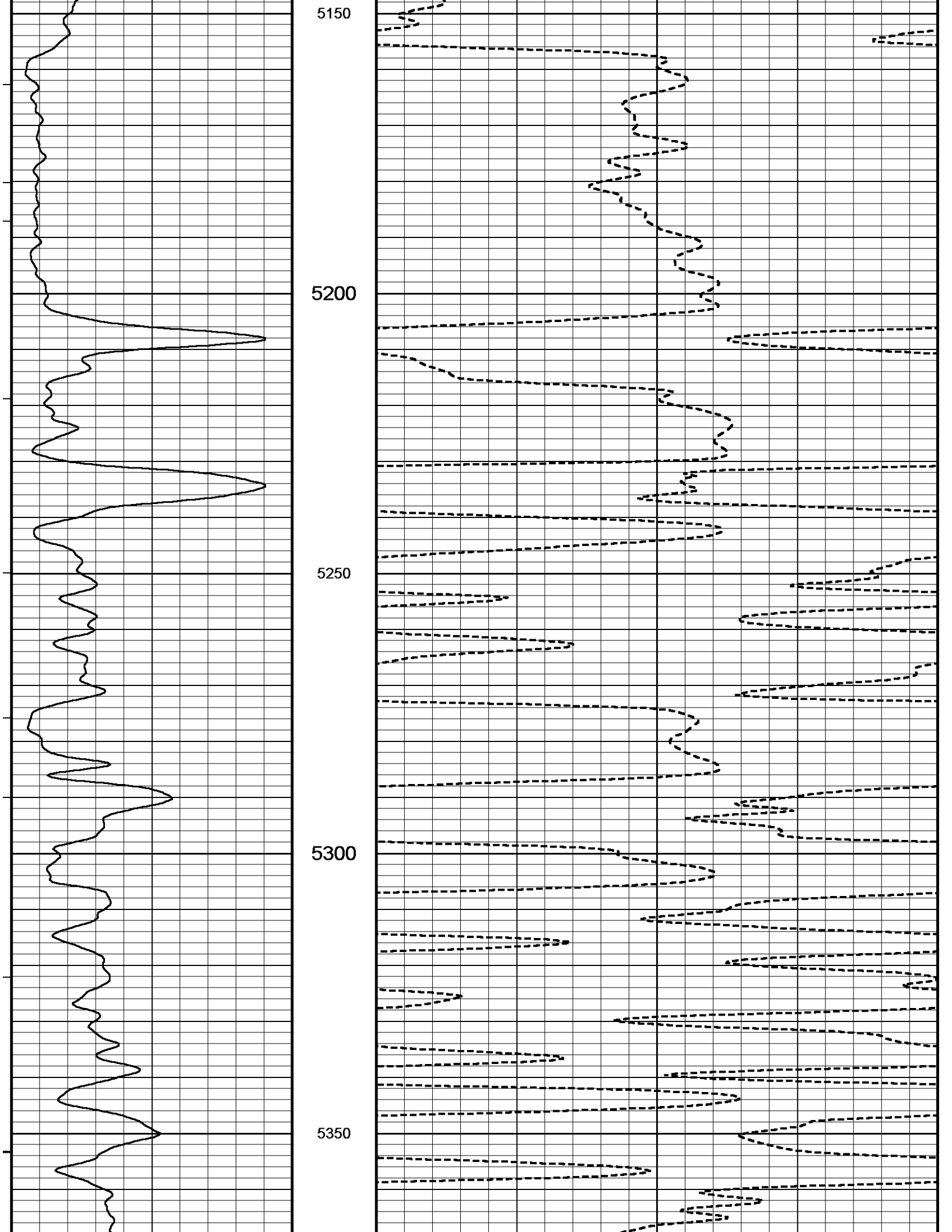
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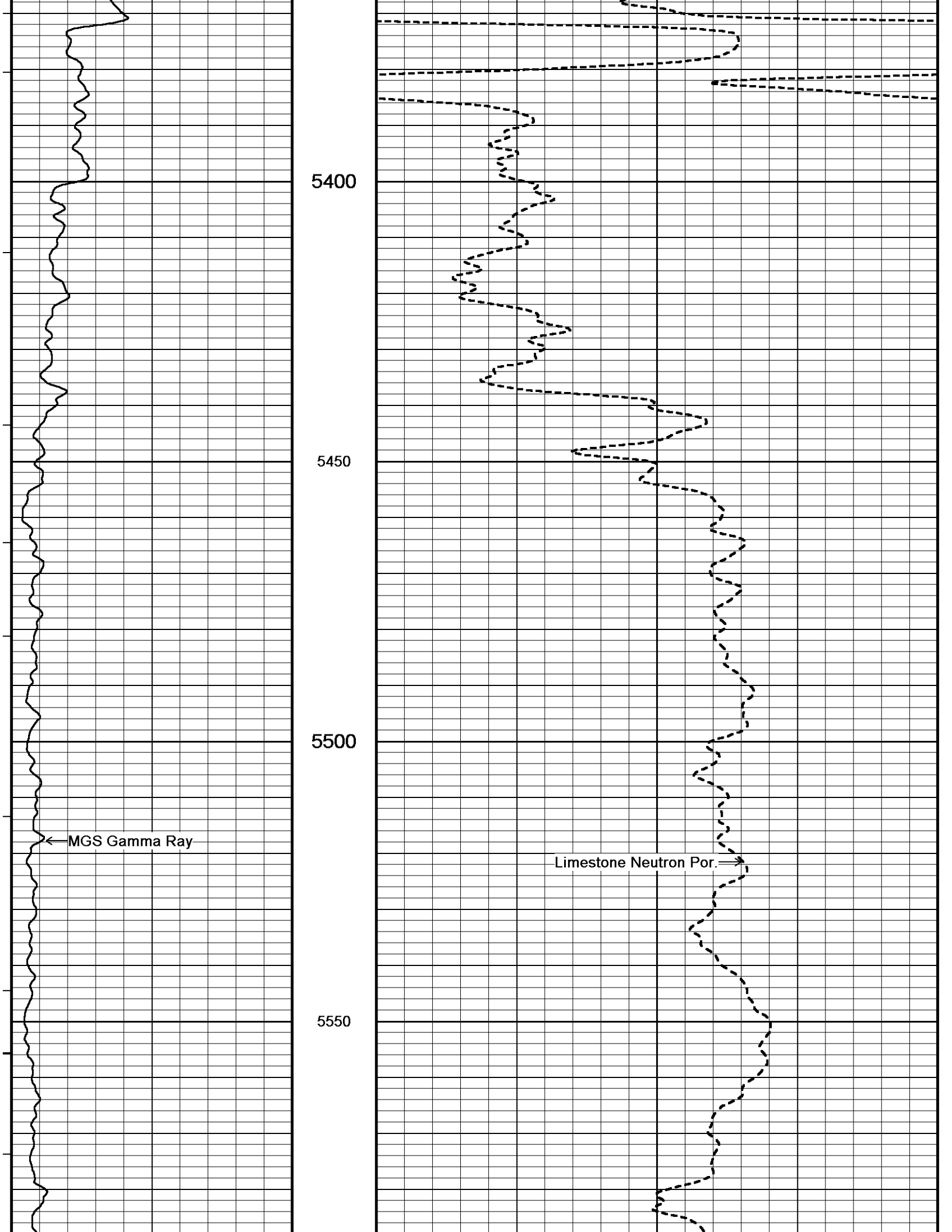
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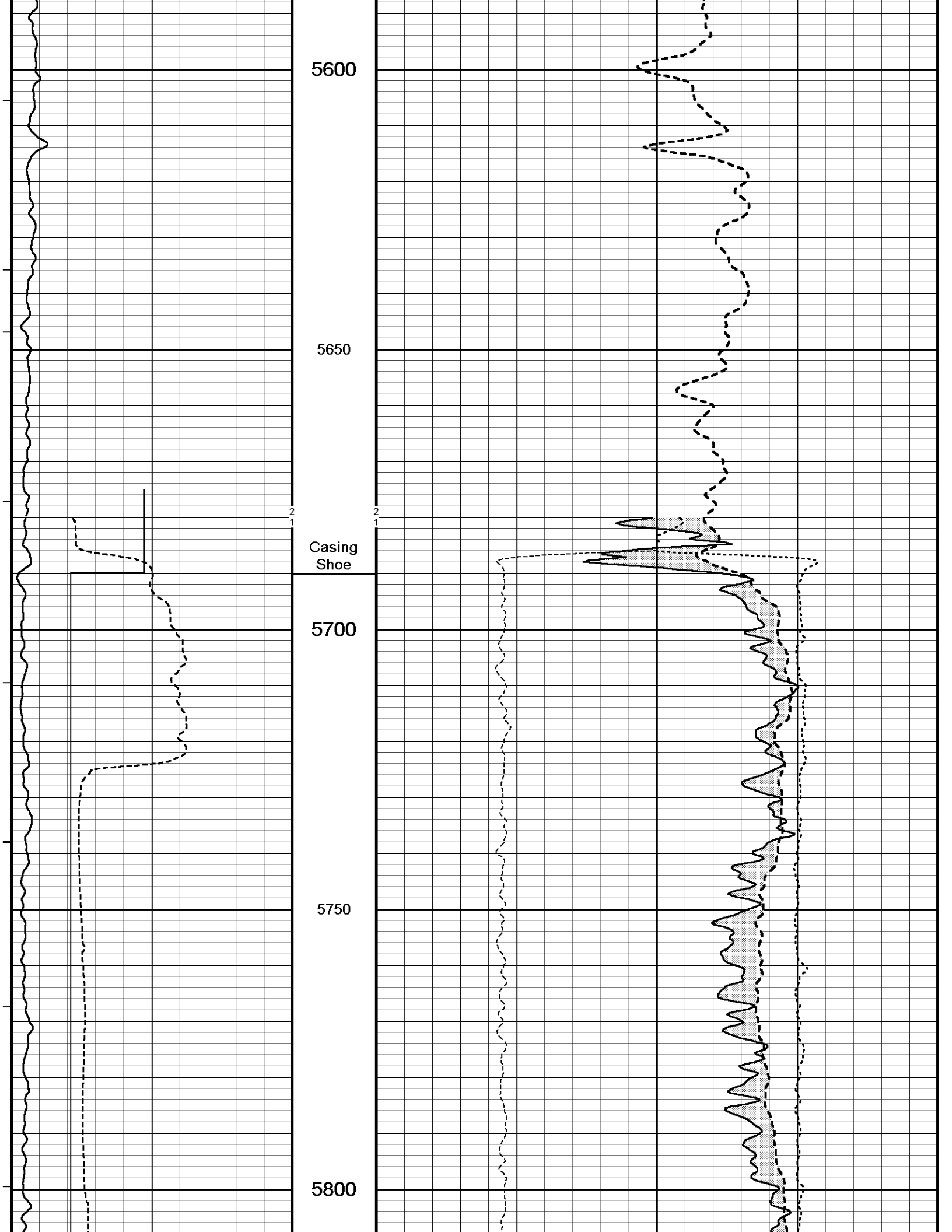
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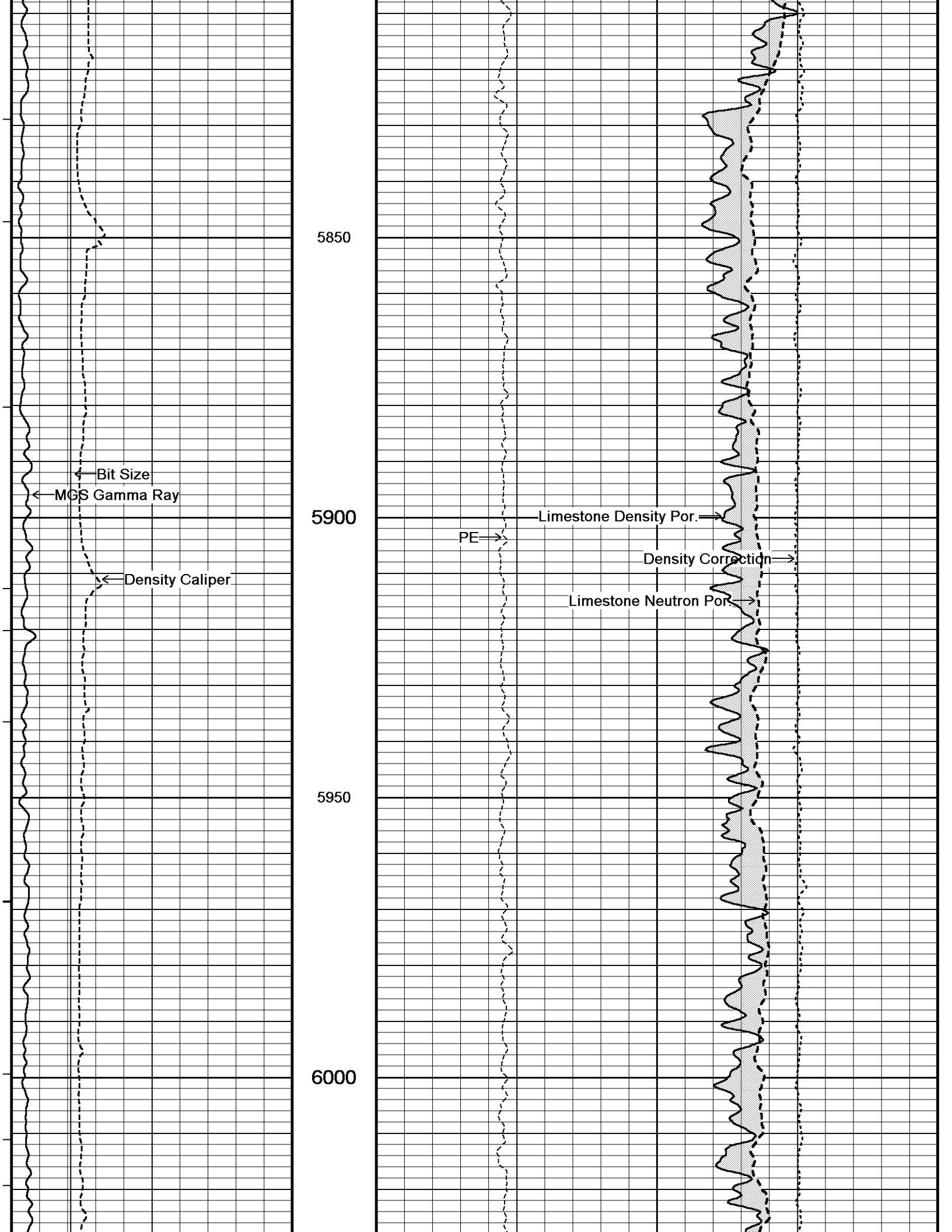
← MGS Gamma Ray

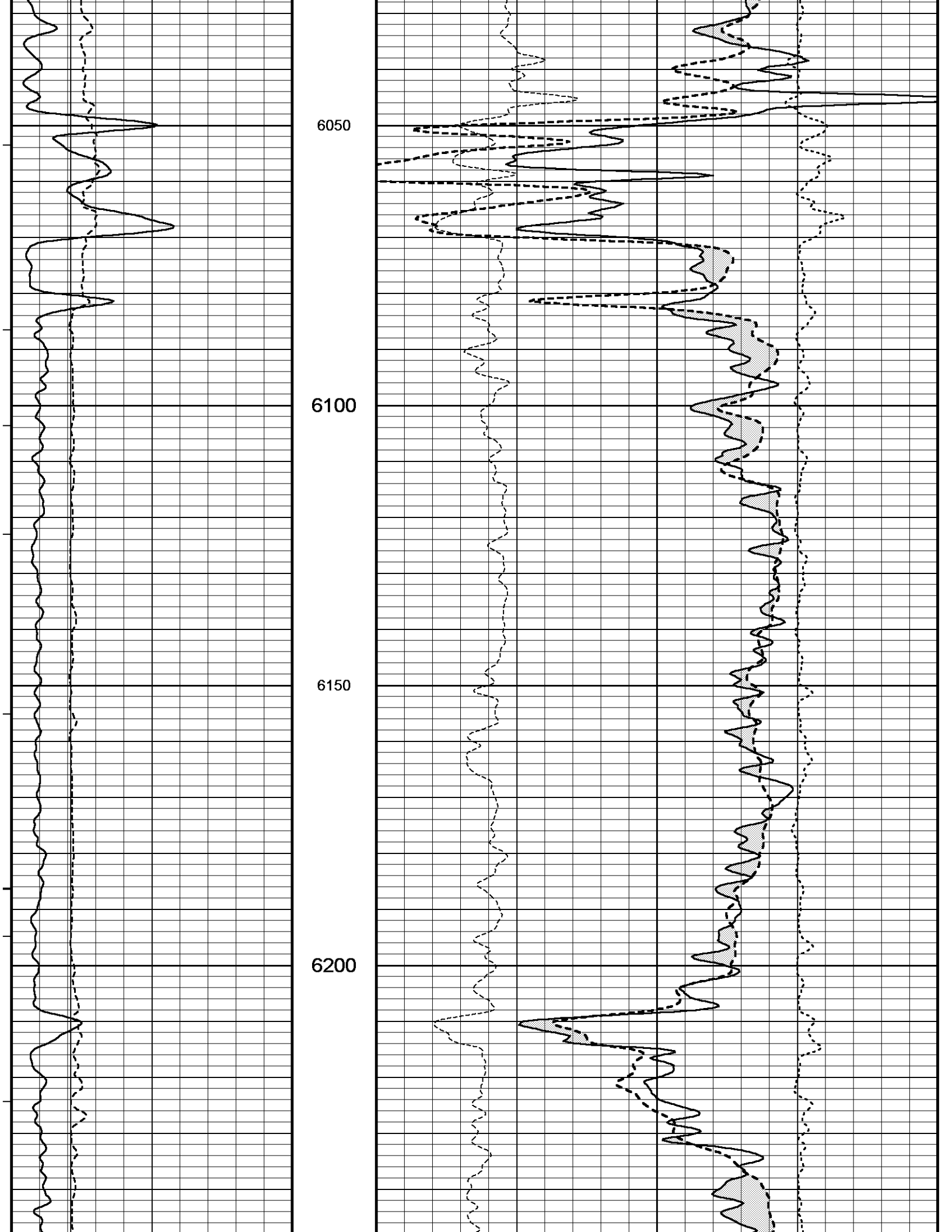
Limestone Neutron Por. →

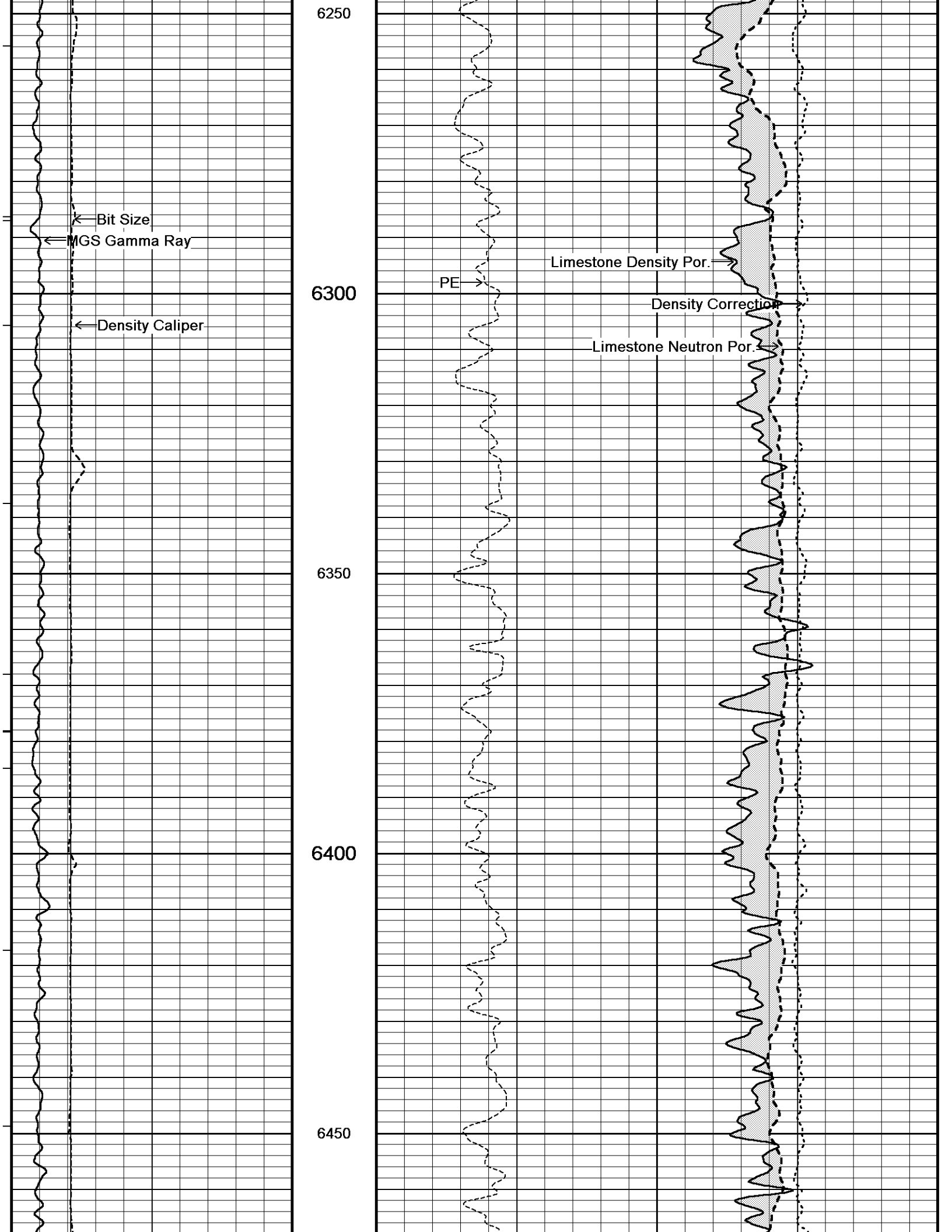


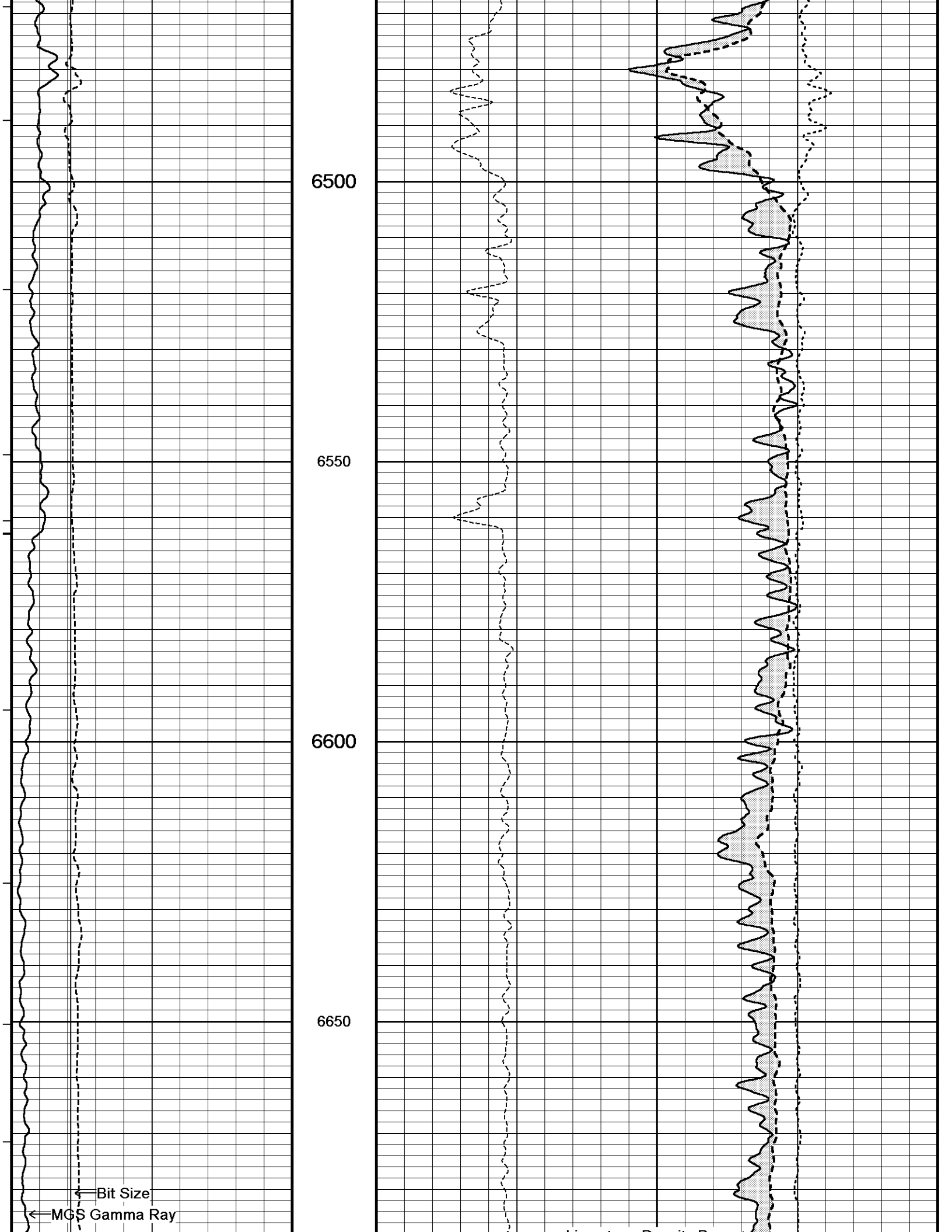


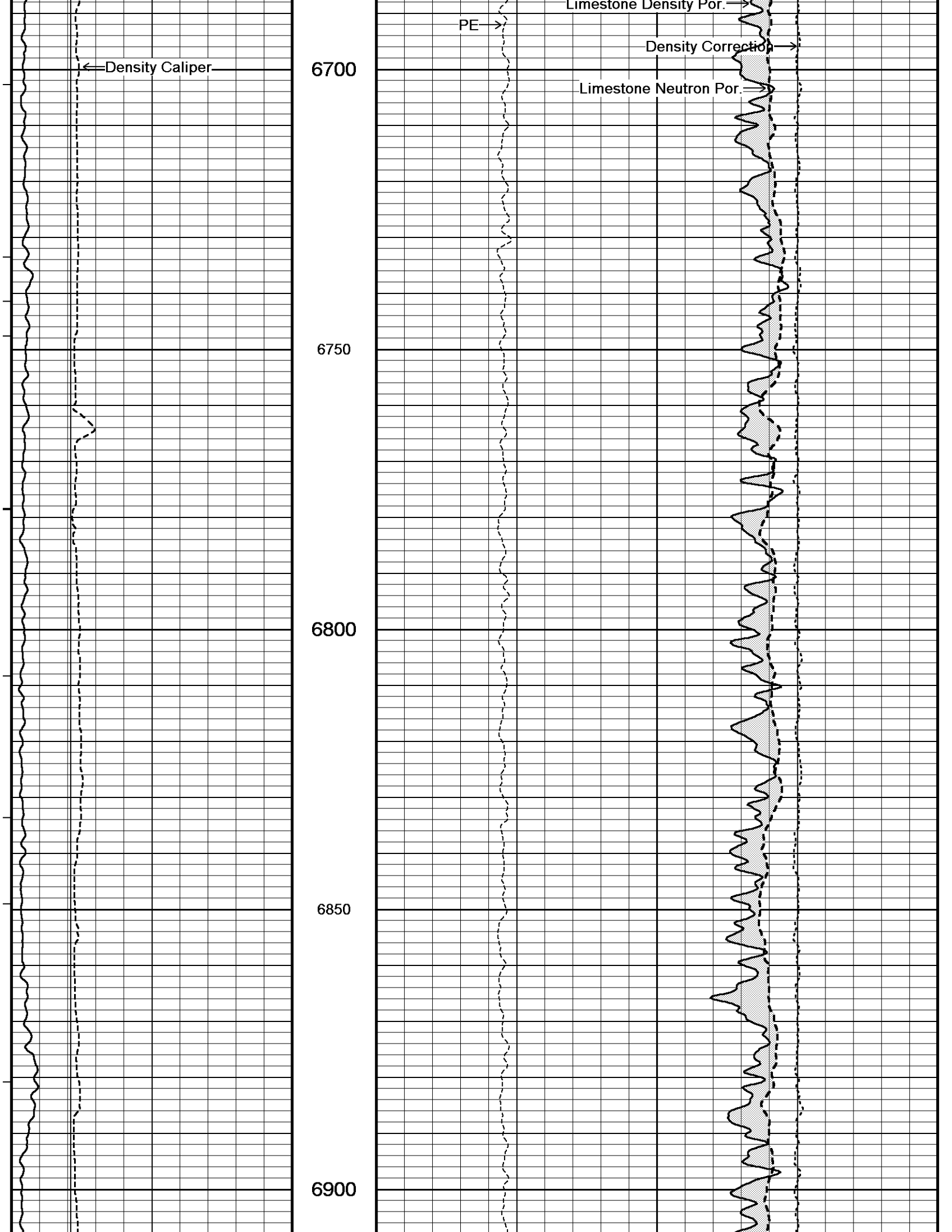


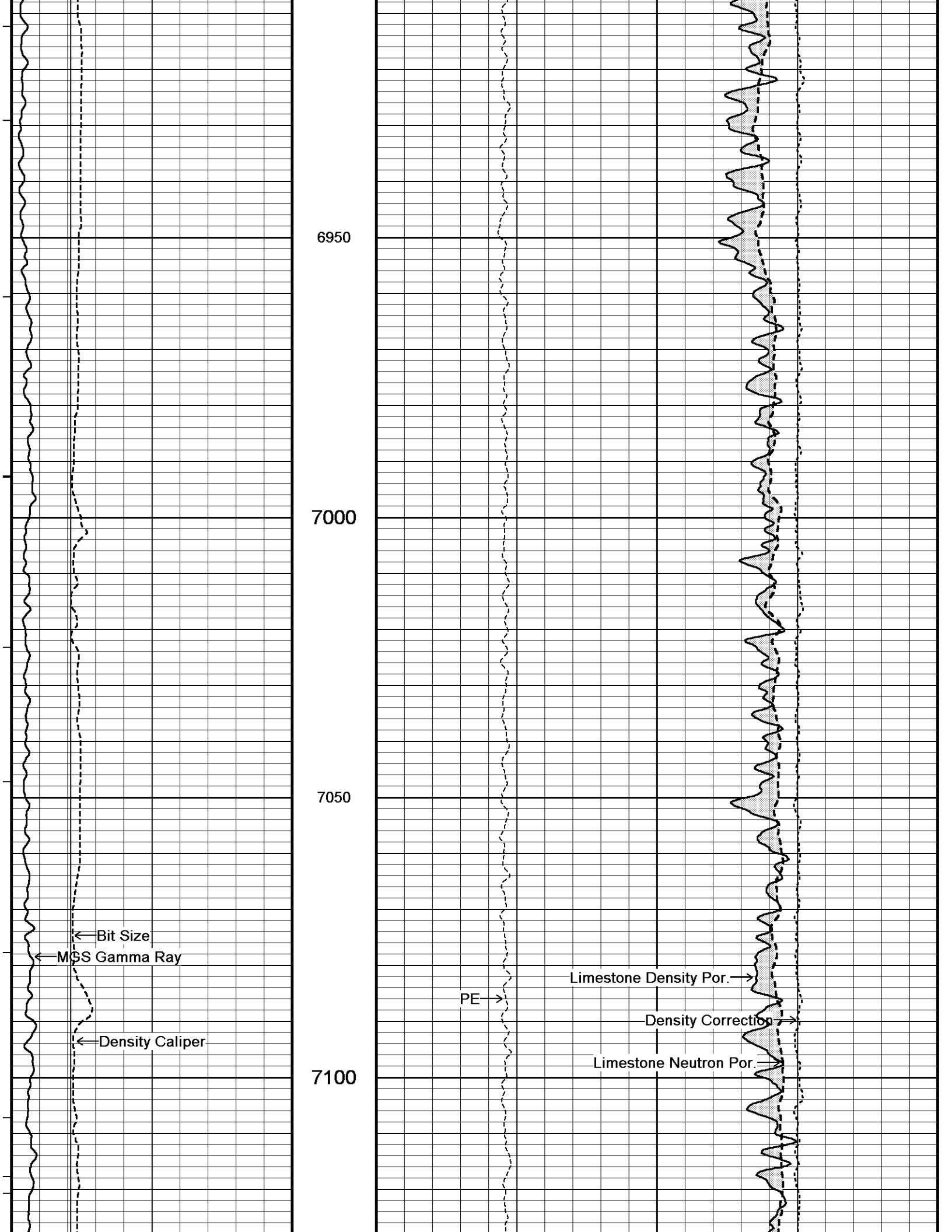


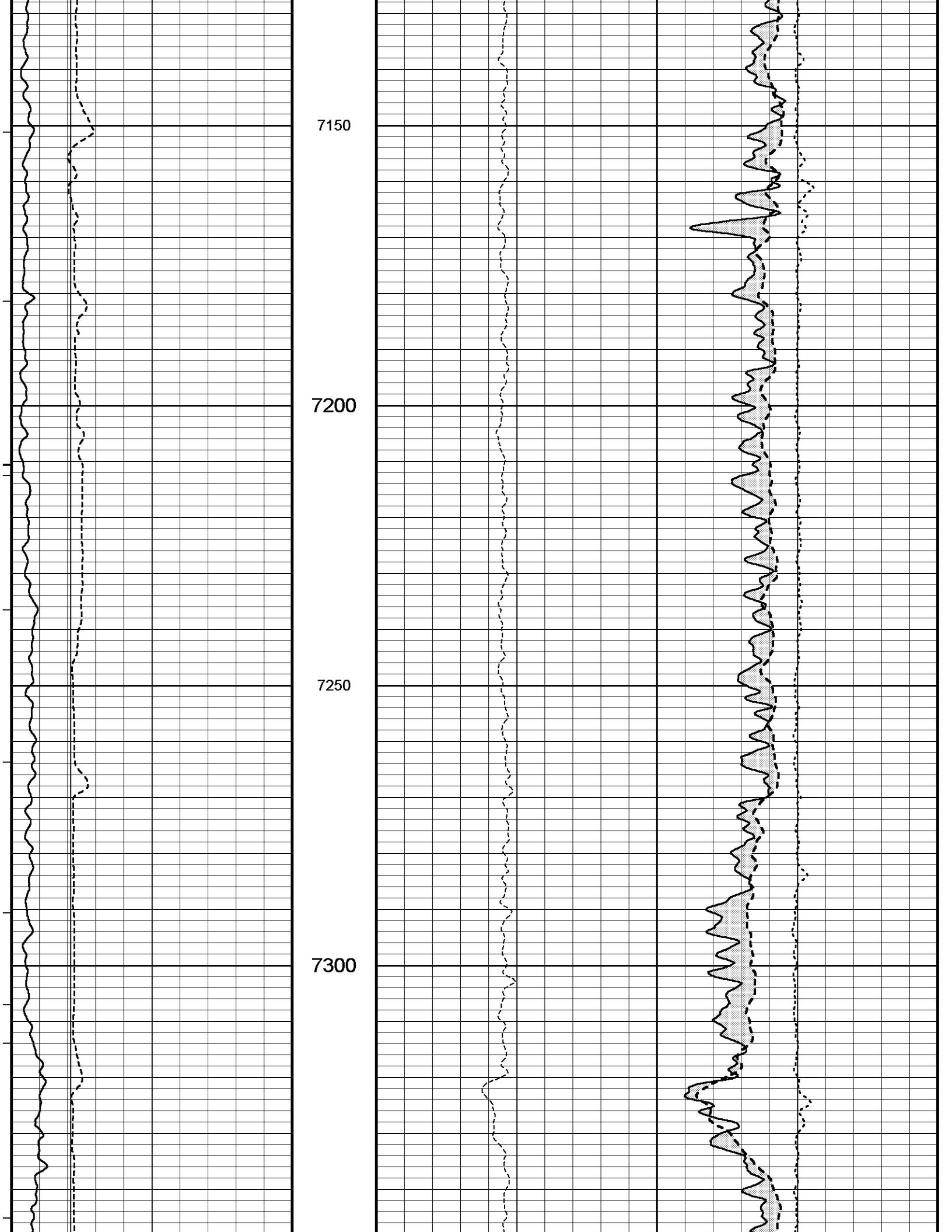


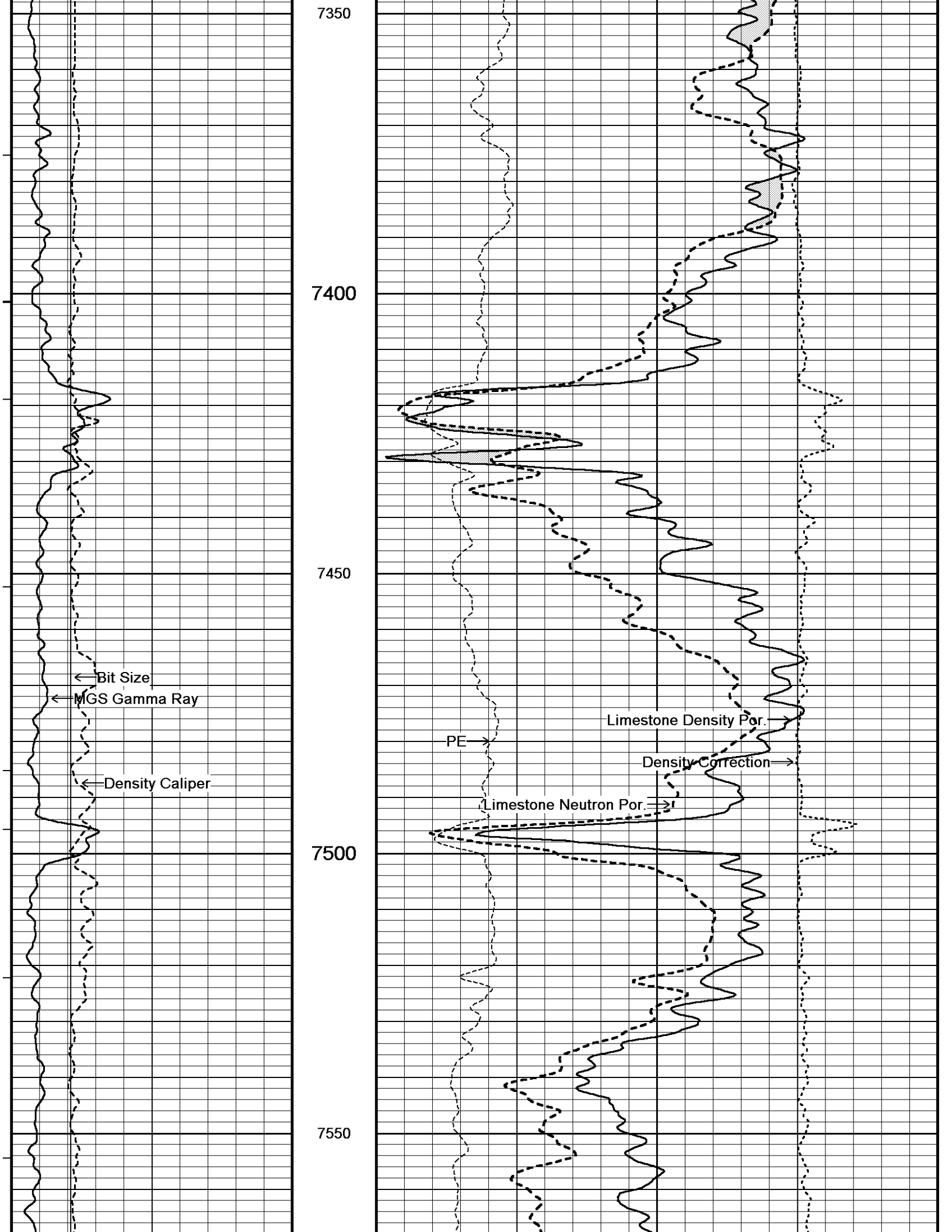


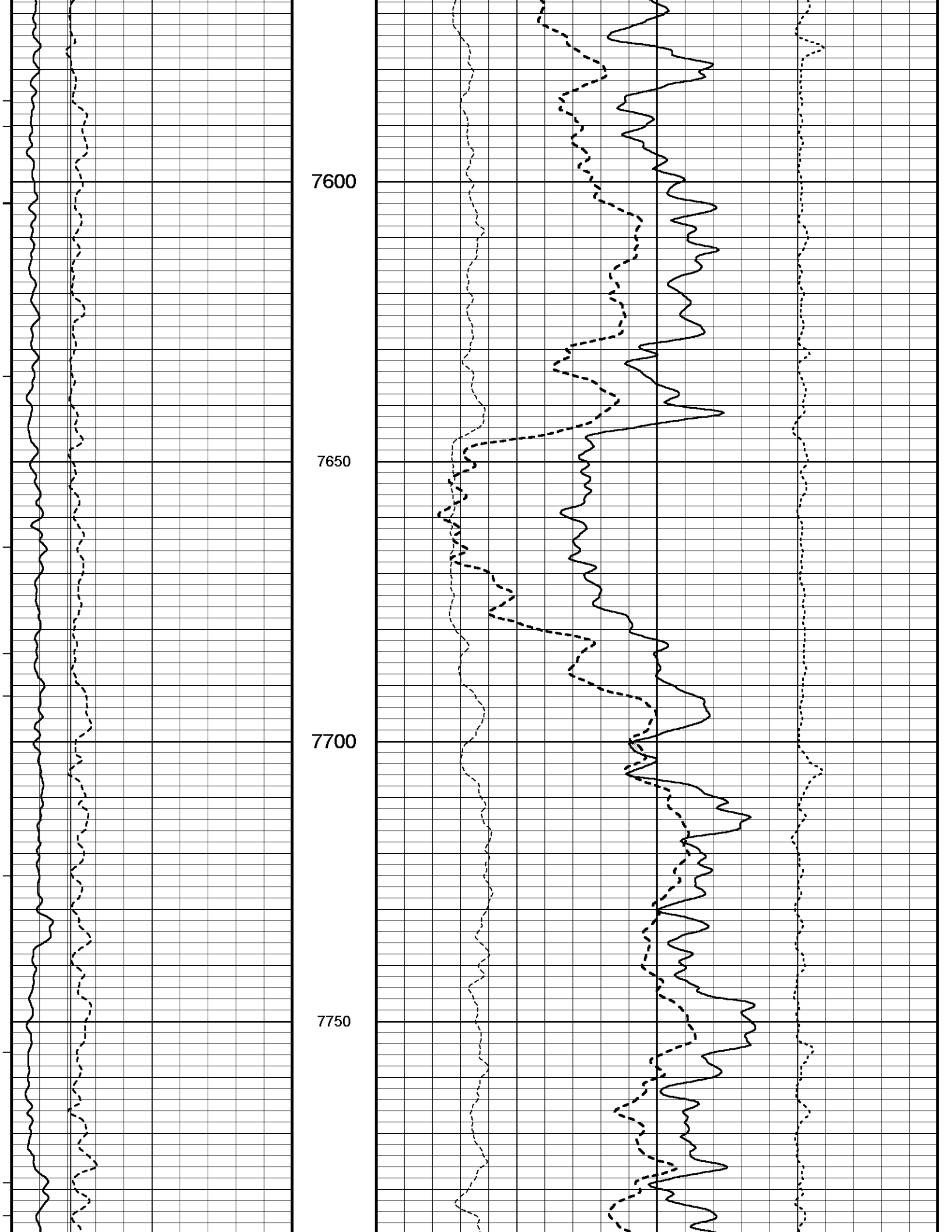


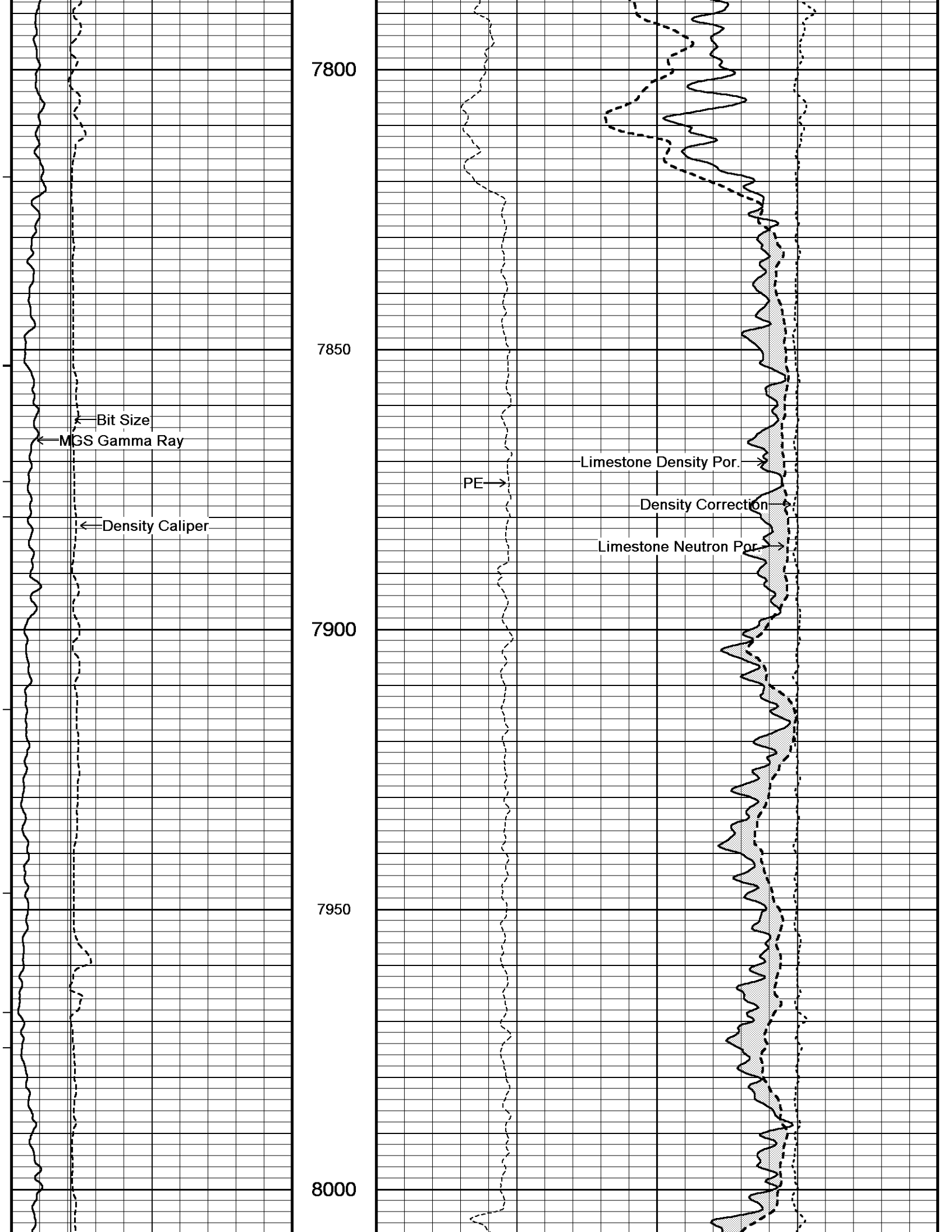


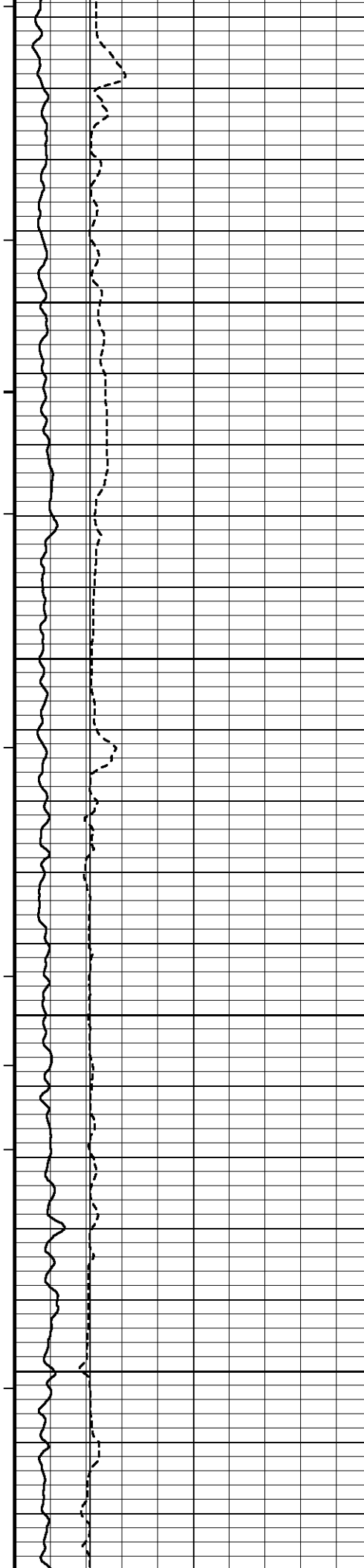










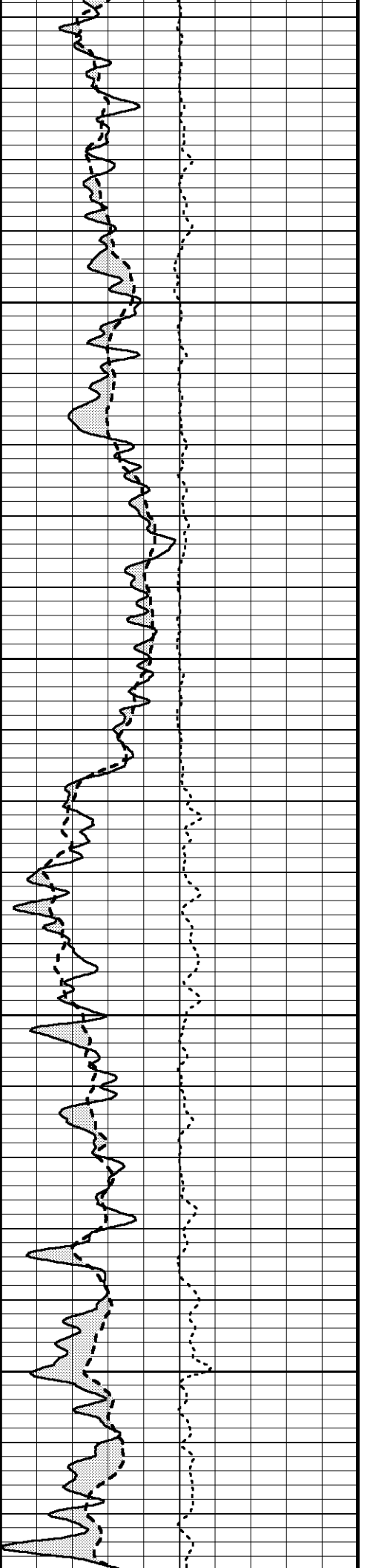
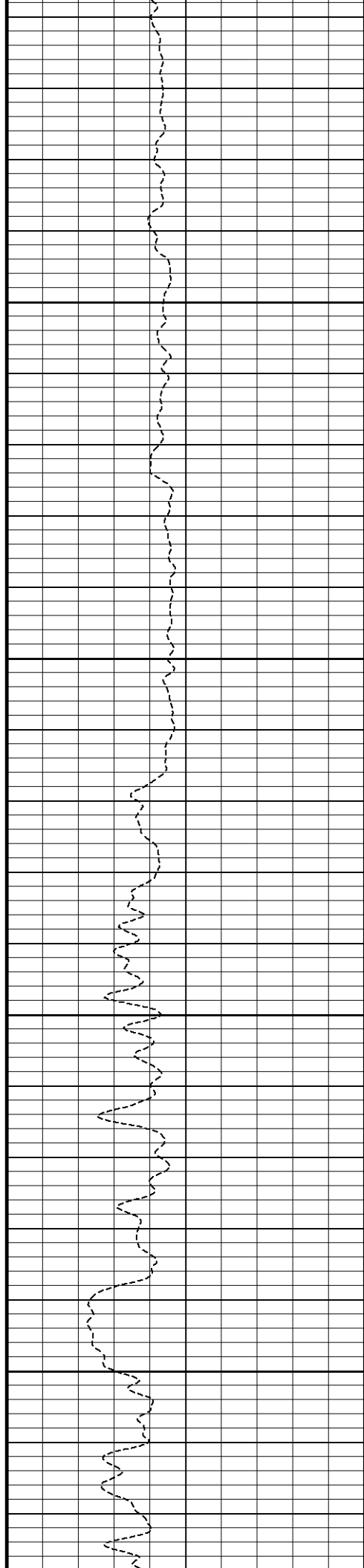


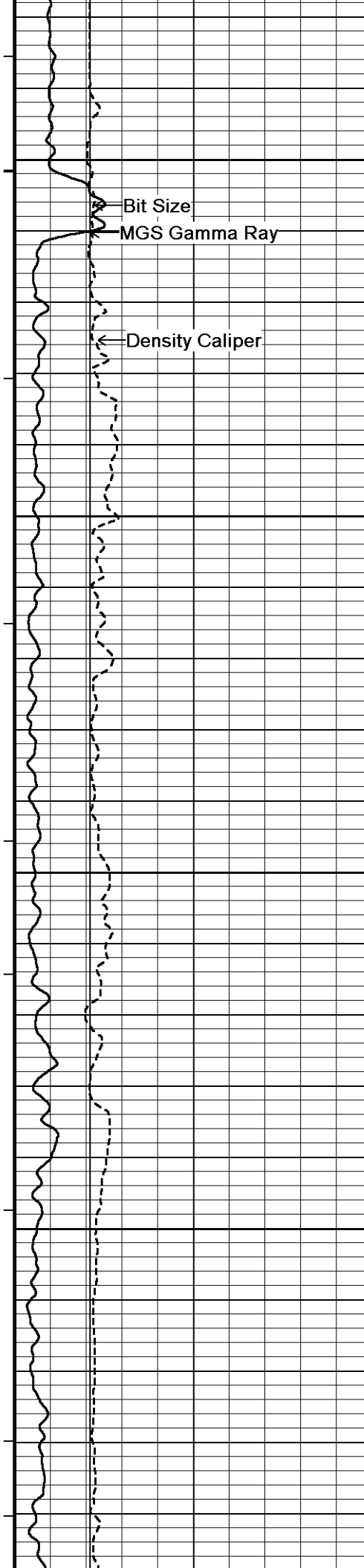
8050

8100

8150

8200



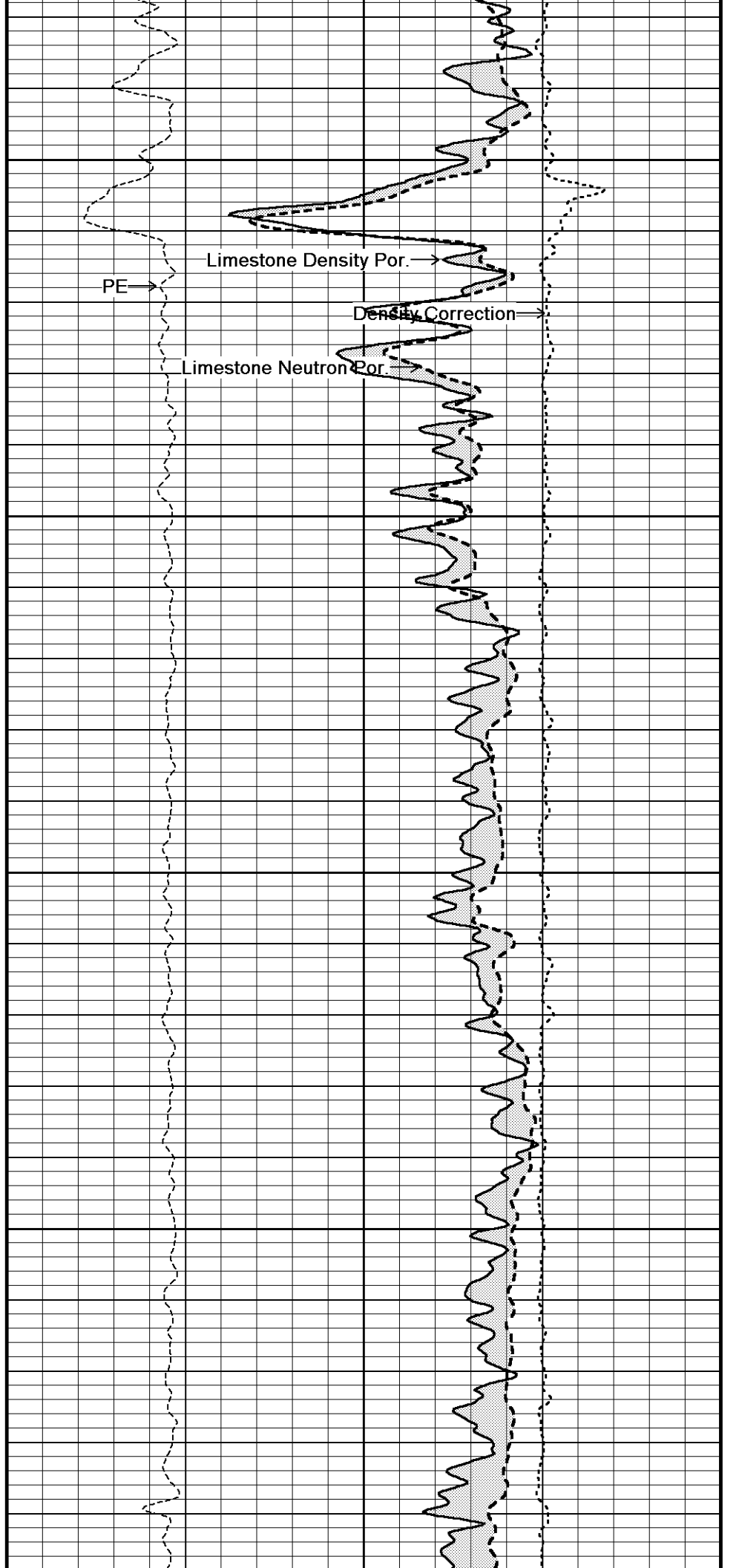


8250

8300

8350

8400

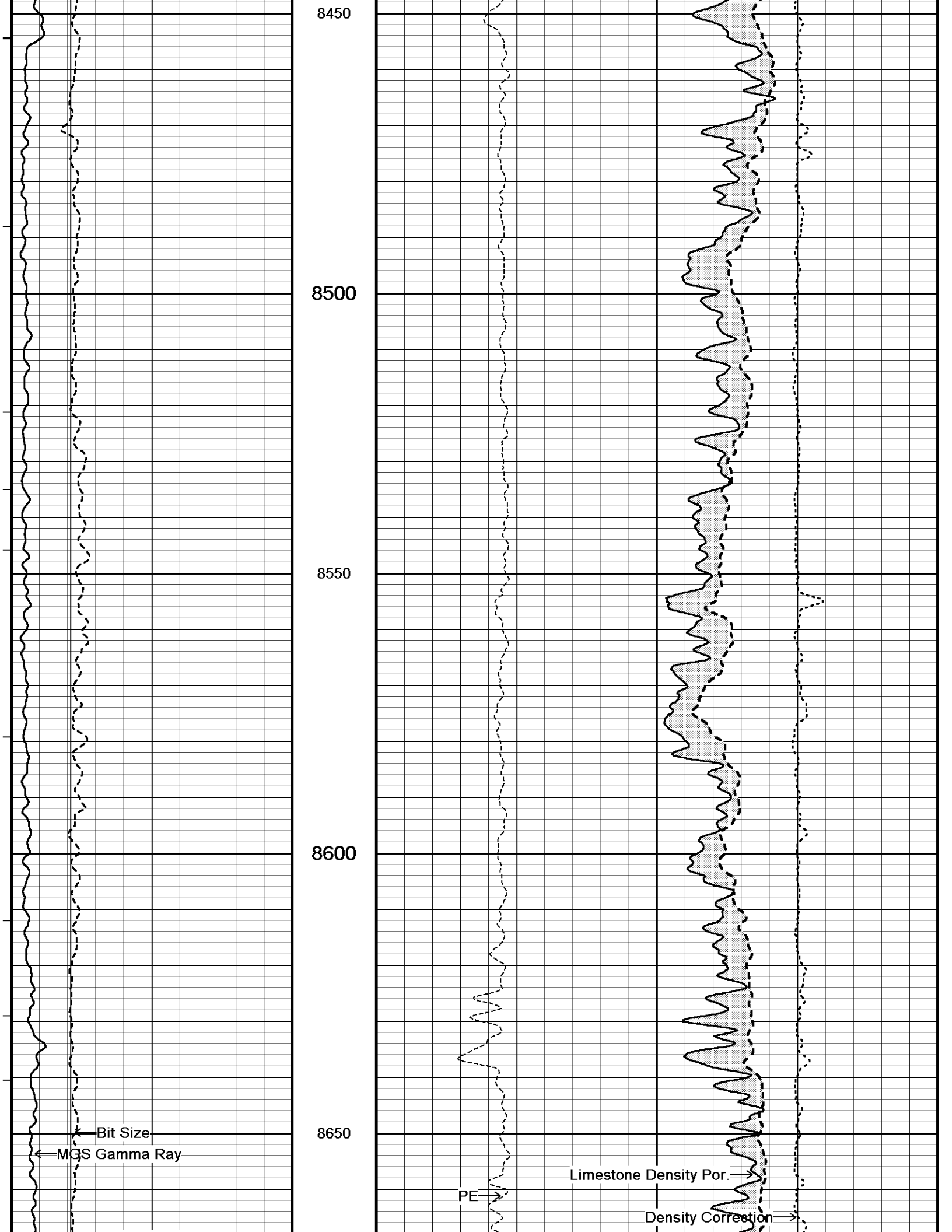


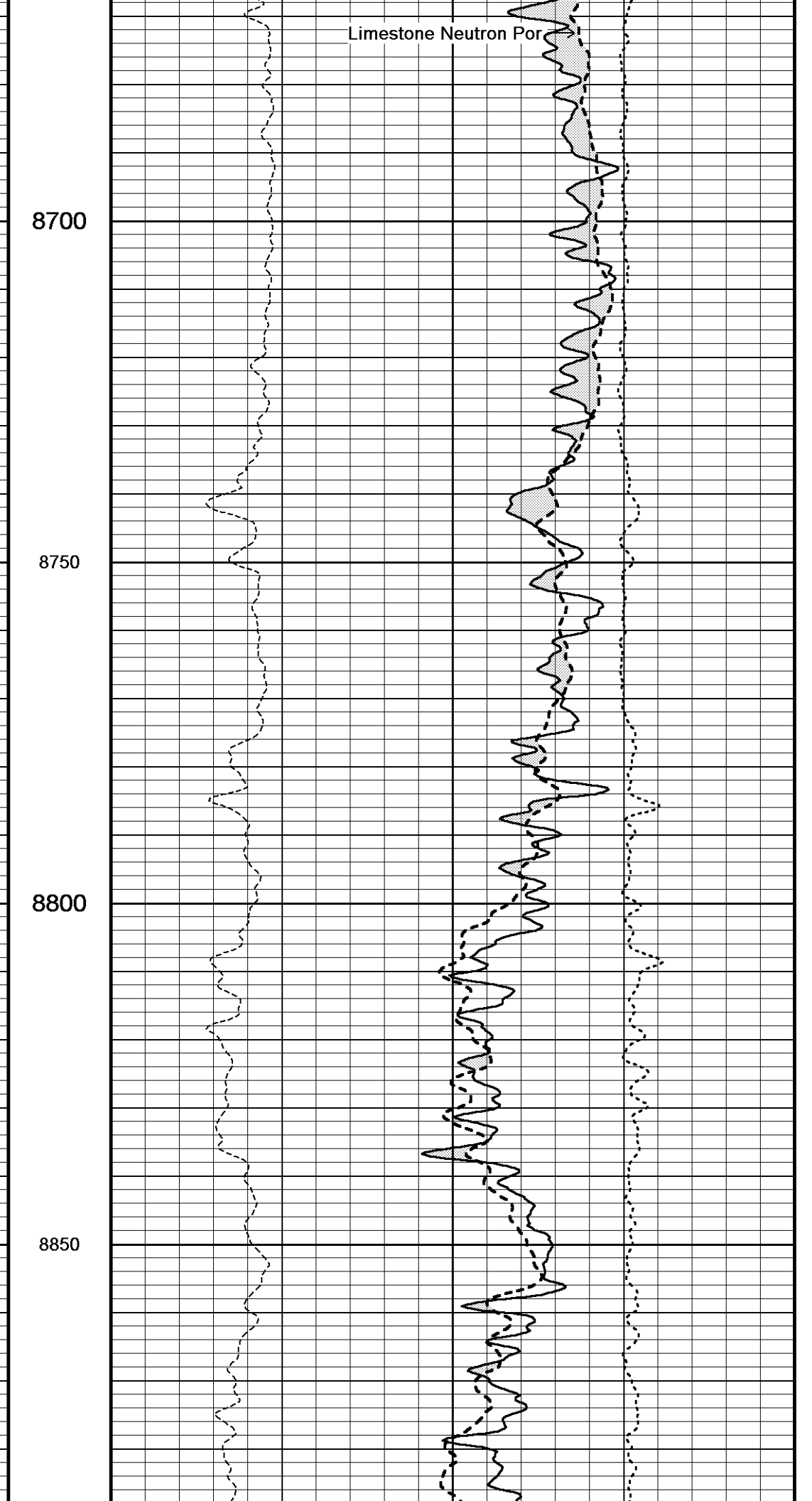
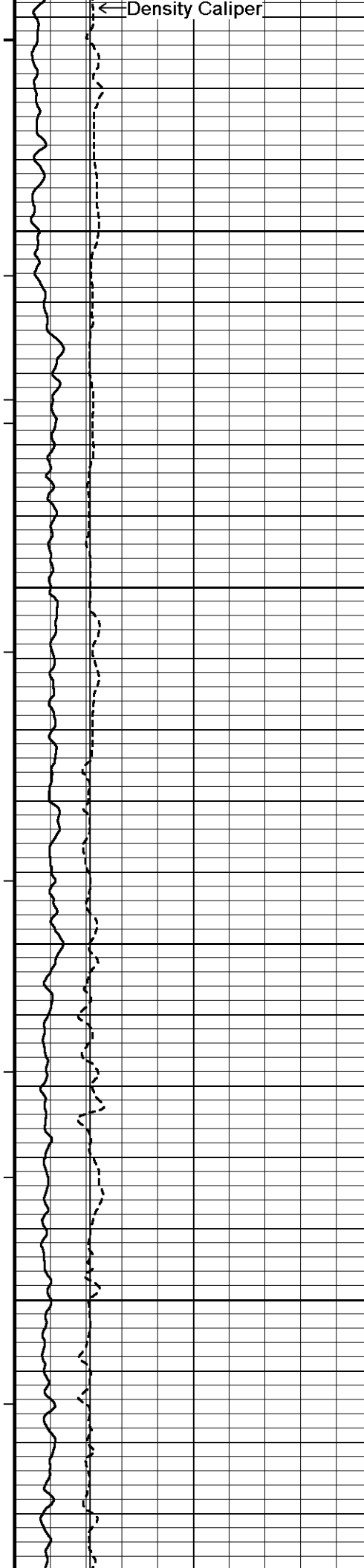
PE

Limestone Density Por.

Density Correction

Limestone Neutron Por.



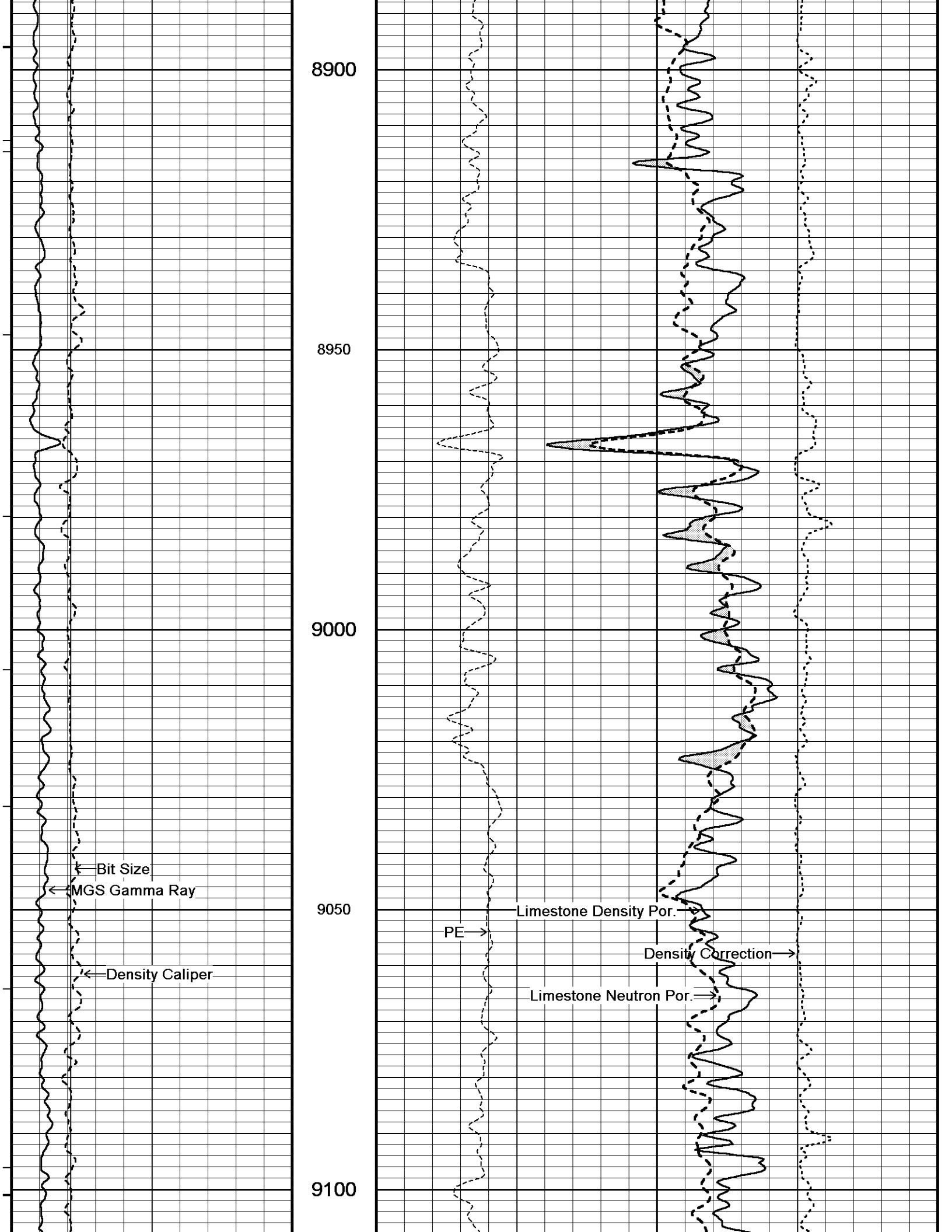


8700

8750

8800

8850



8900

8950

9000

9050

9100

← Bit Size

← MGS Gamma Ray

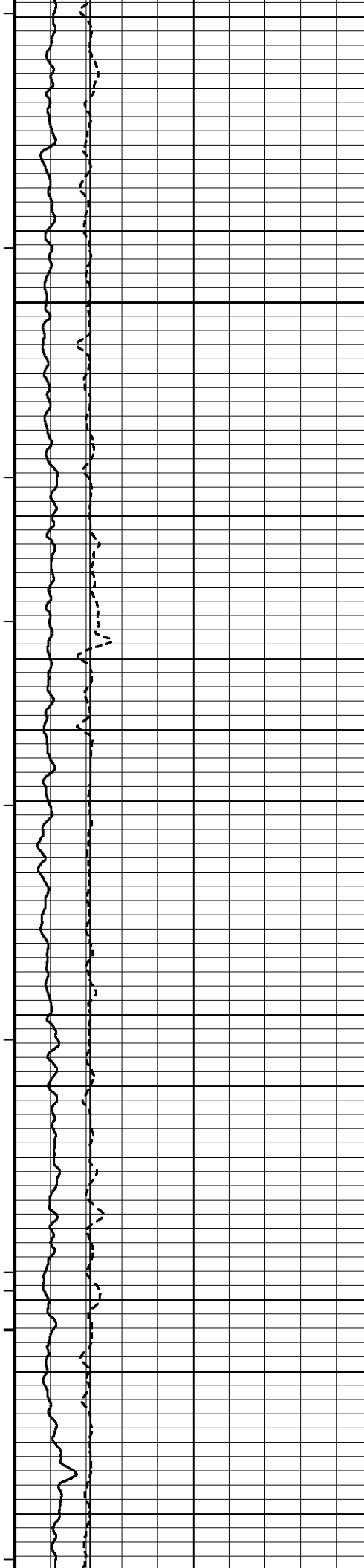
← Density Caliper

PE →

Limestone Density Por. →

Density Correction →

Limestone Neutron Por. →

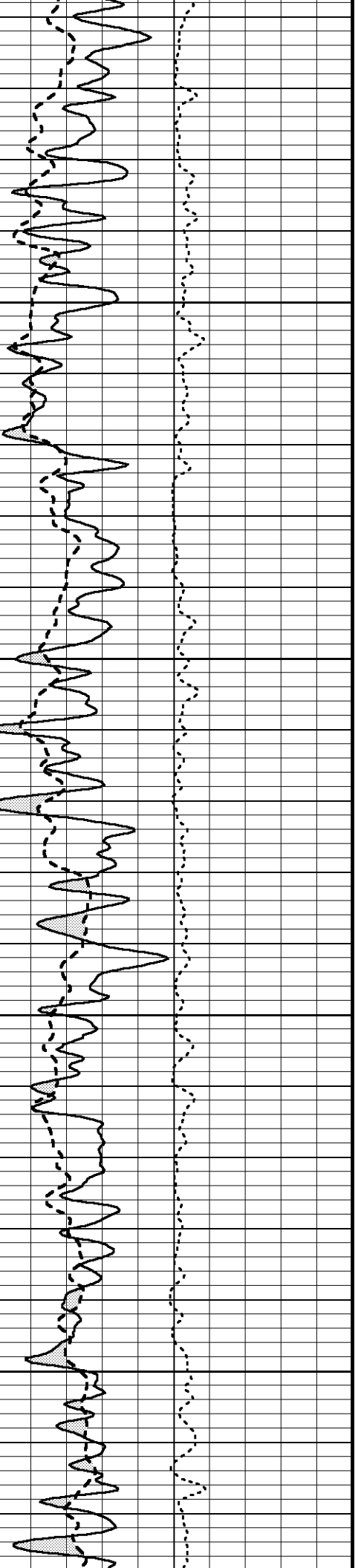
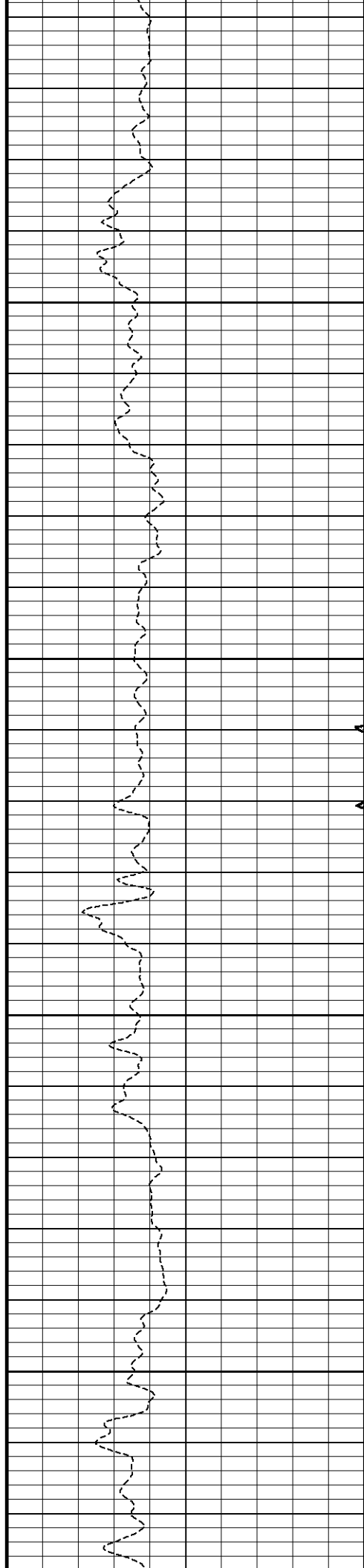


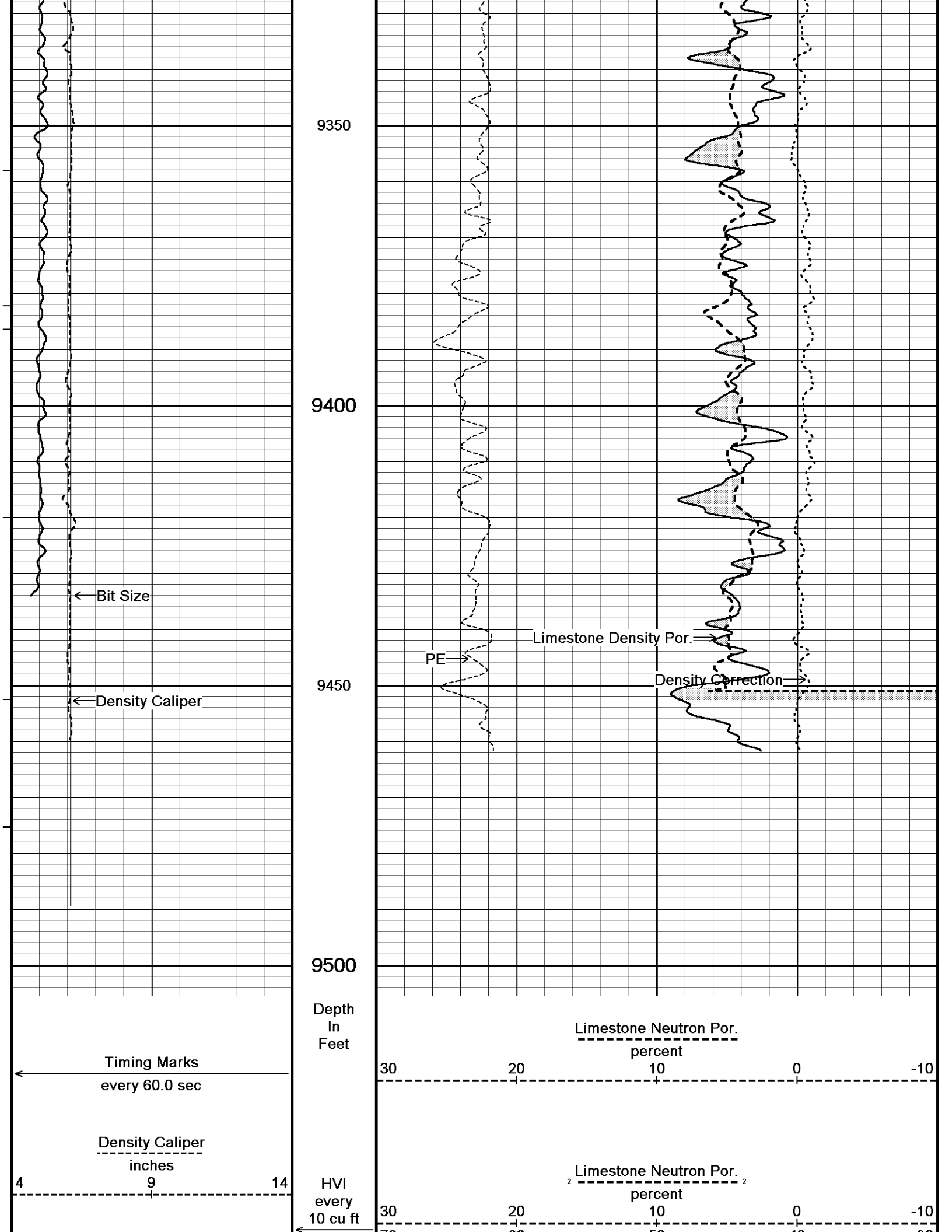
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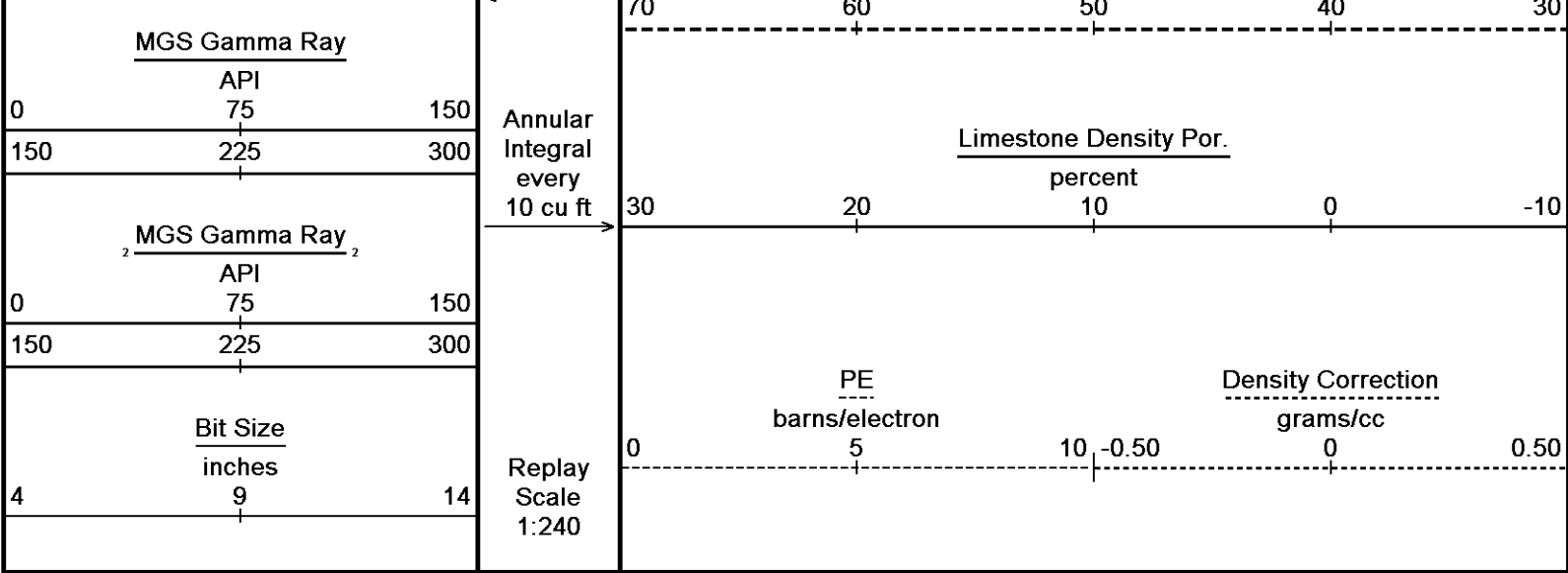
9200

9250

9300





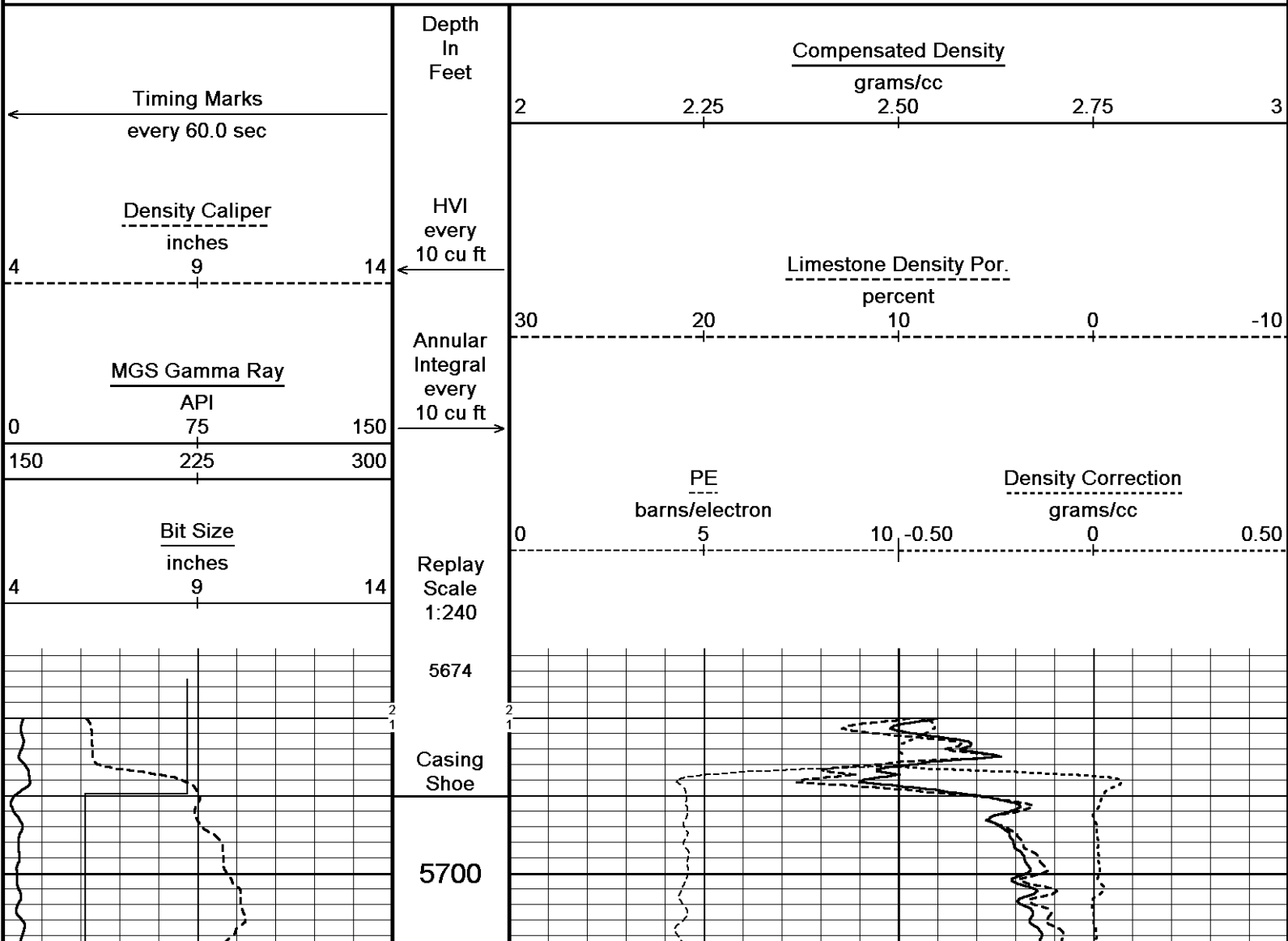


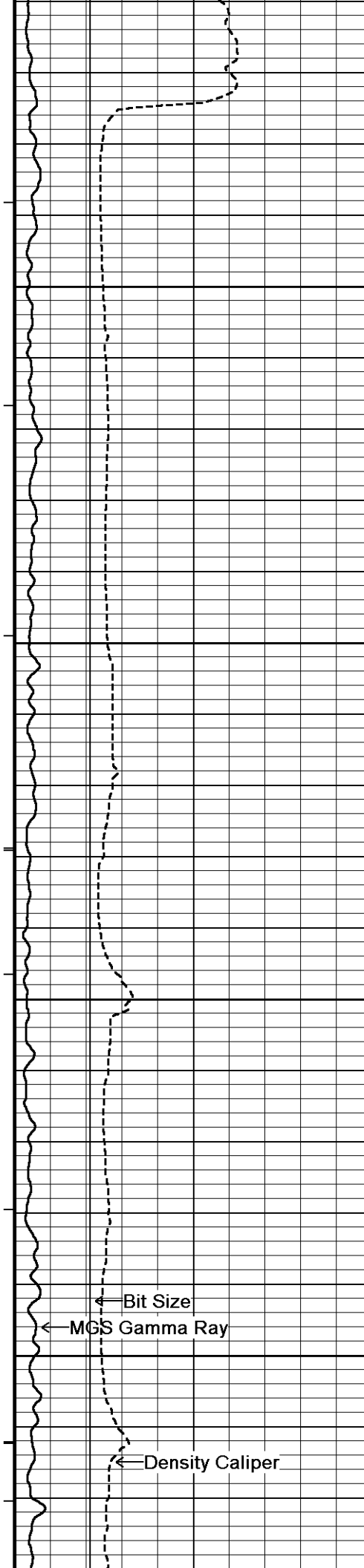
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5 INCH MAIN PASS

5 INCH BULK DENSITY DSC

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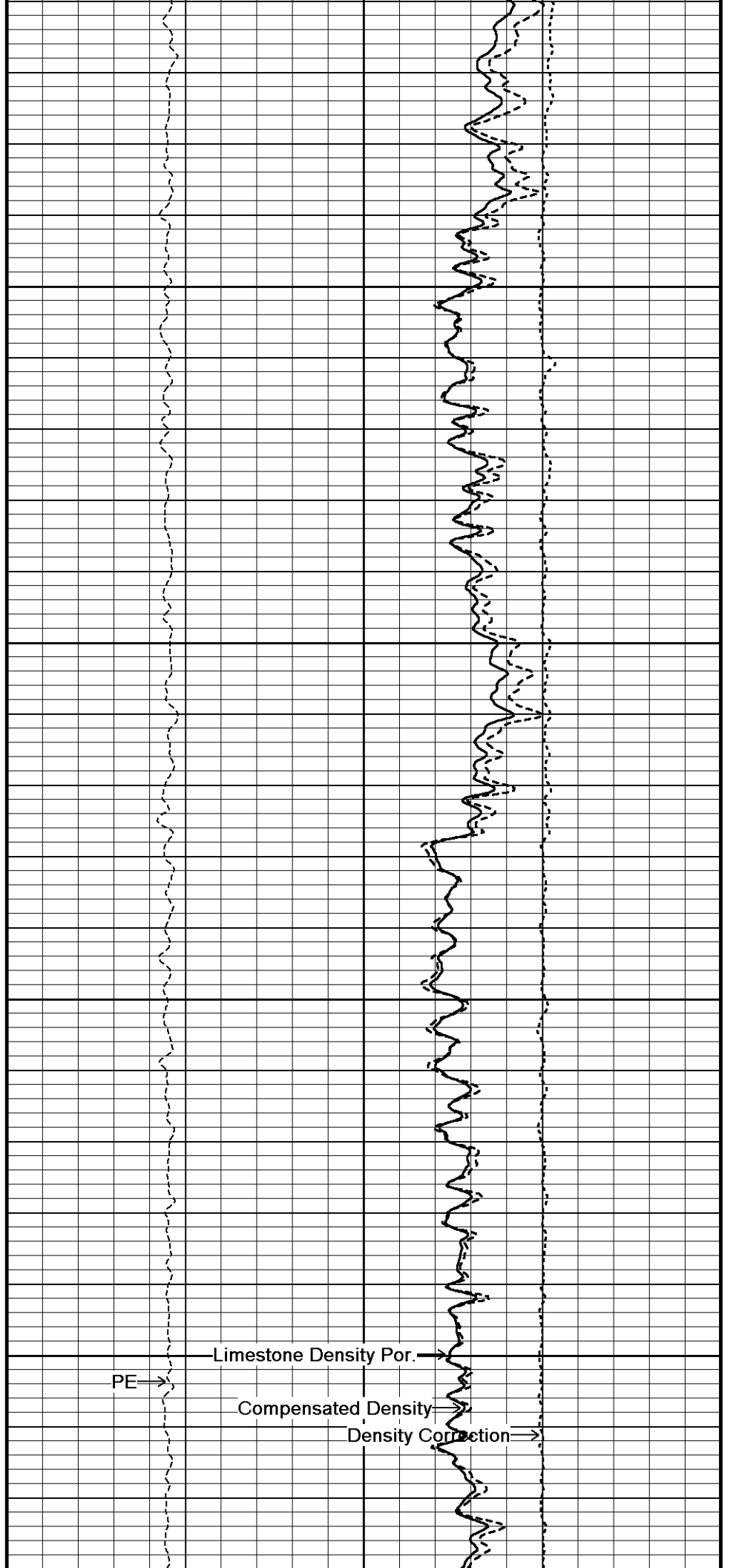
5750

5800

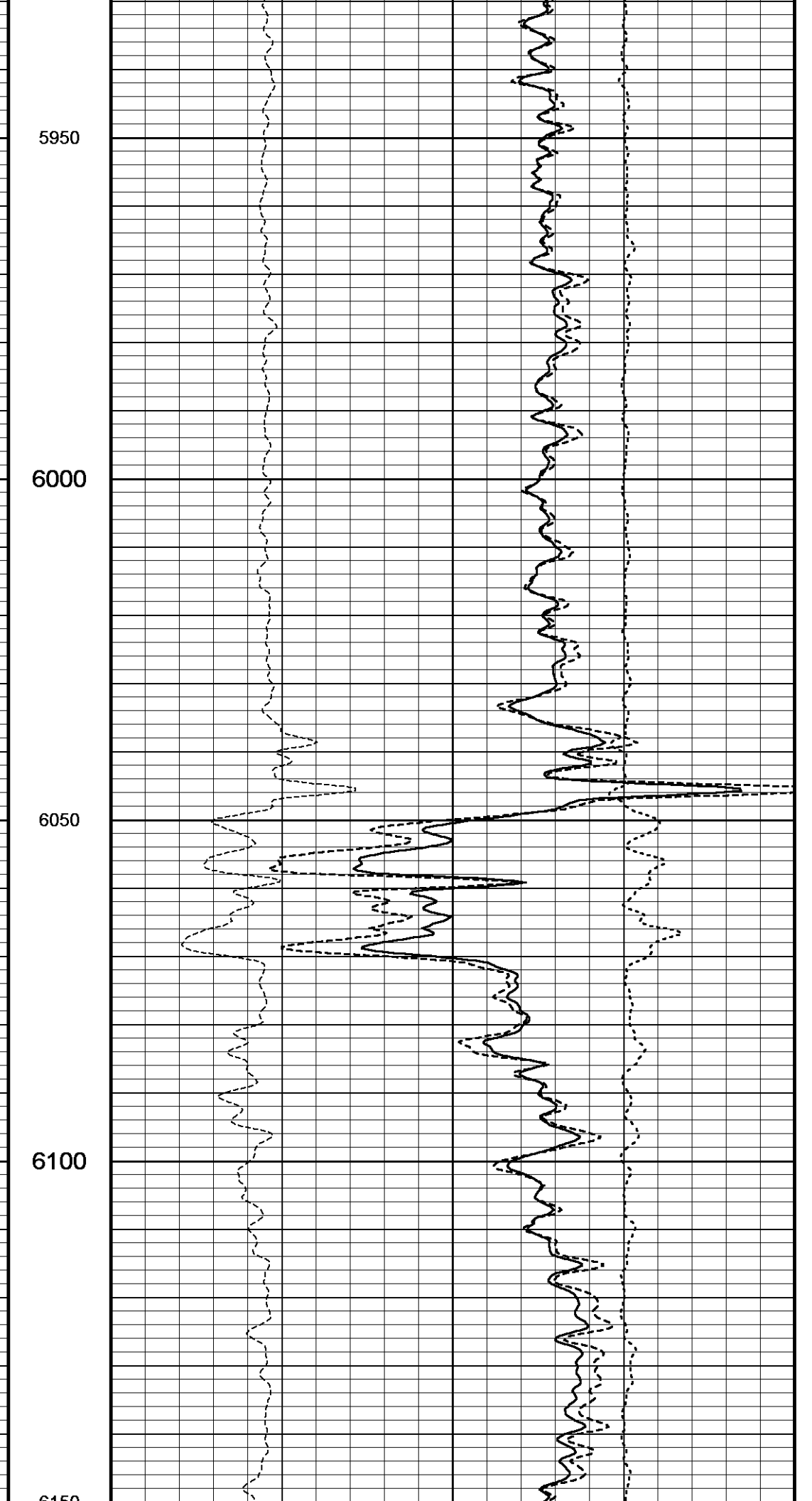
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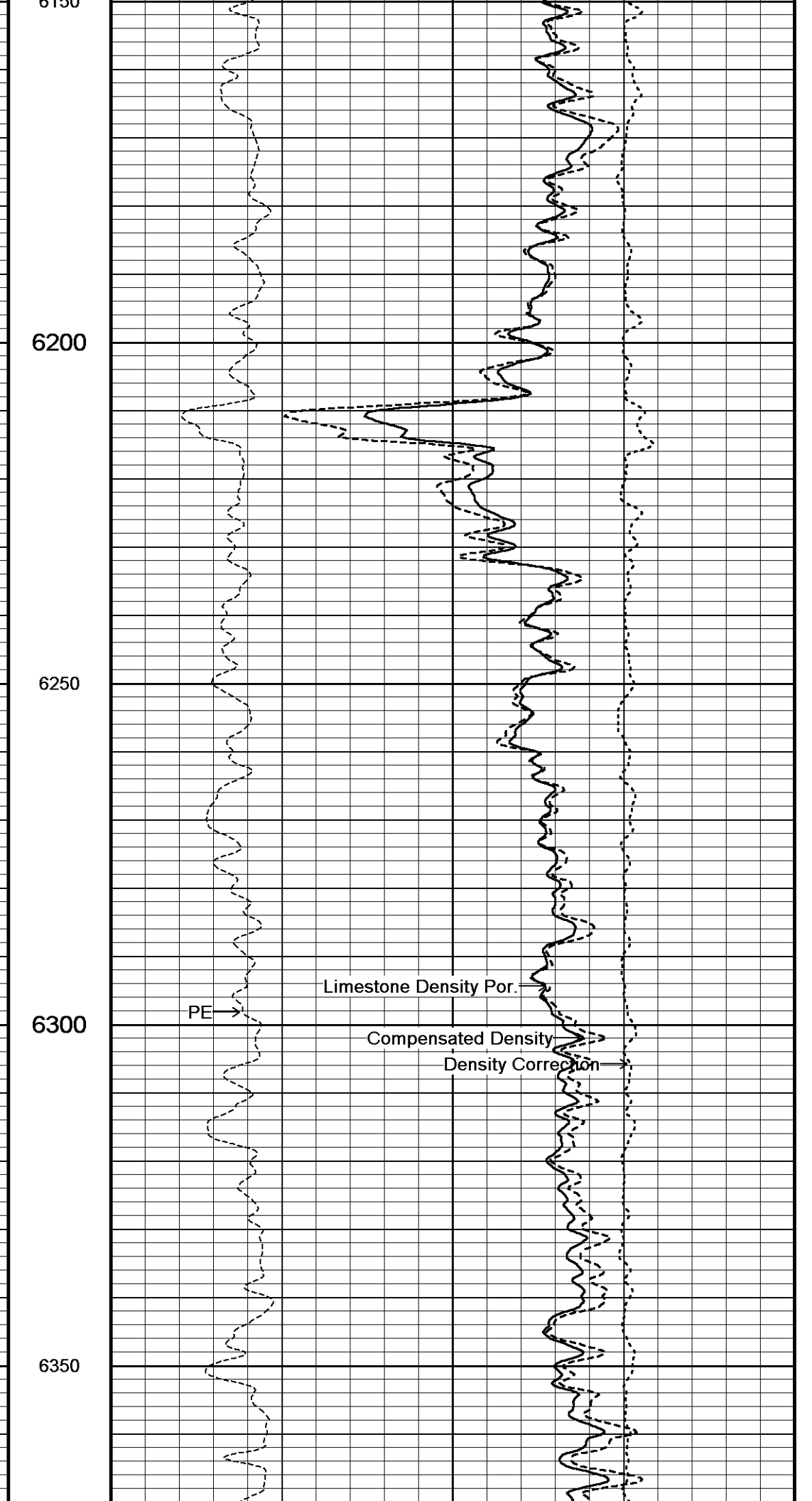
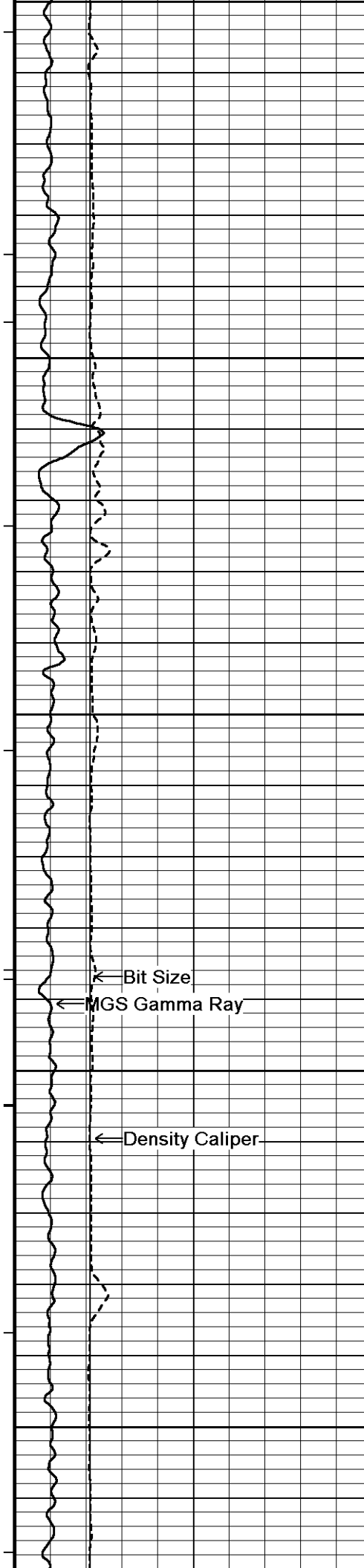
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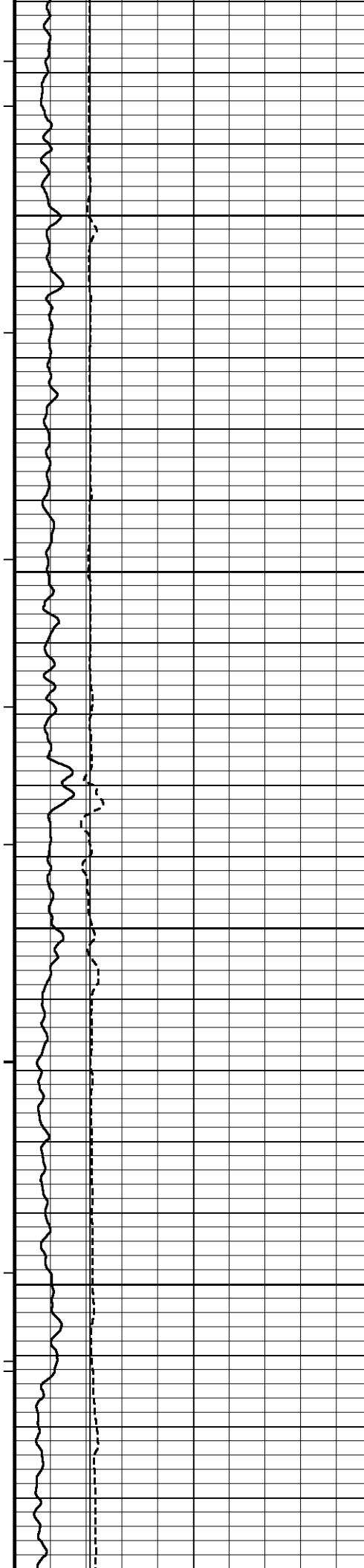
← Bit Size  
← MGS Gamma Ray  
← Density Caliper



PE →  
Limestone Density Por. →  
Compensated Density →  
Density Correction →





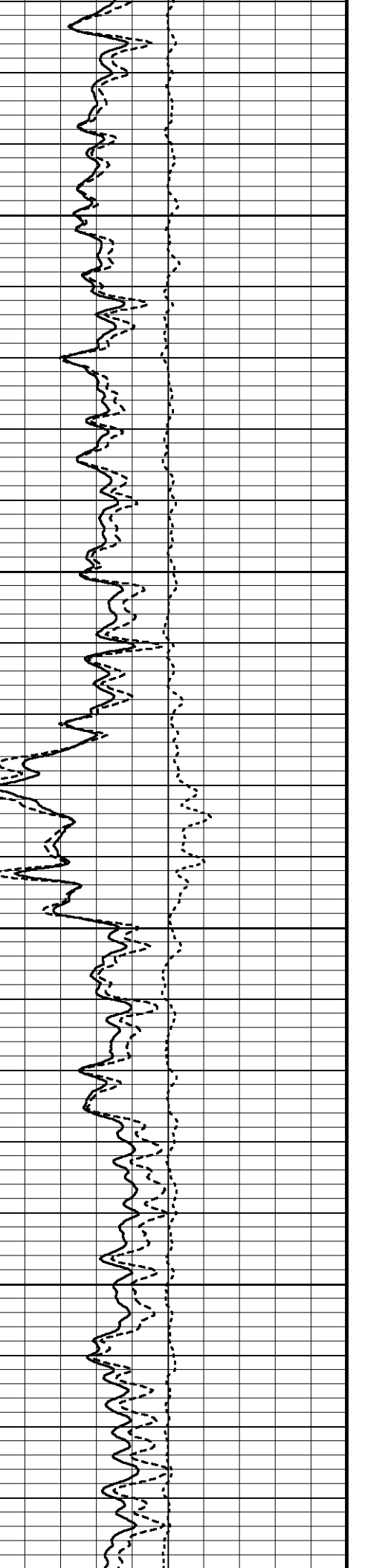
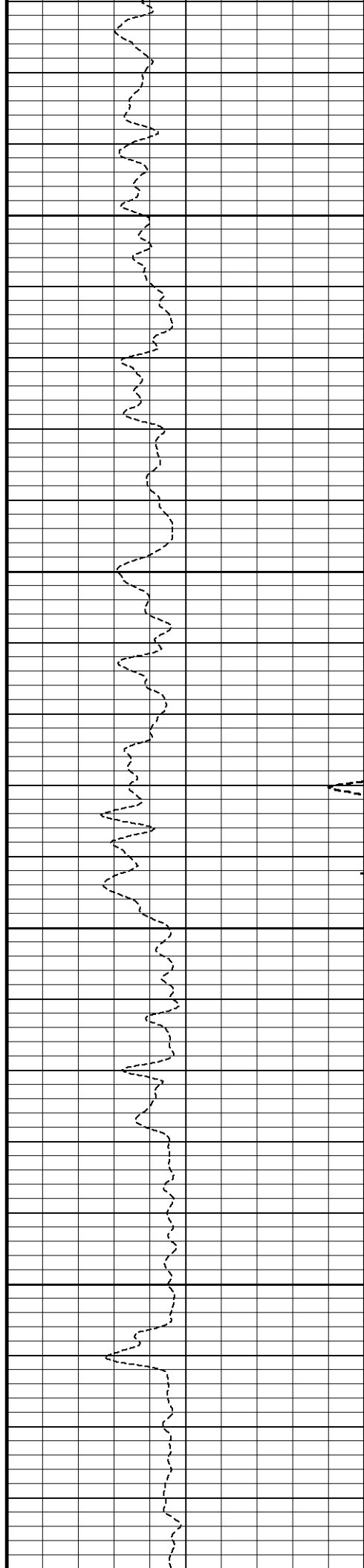


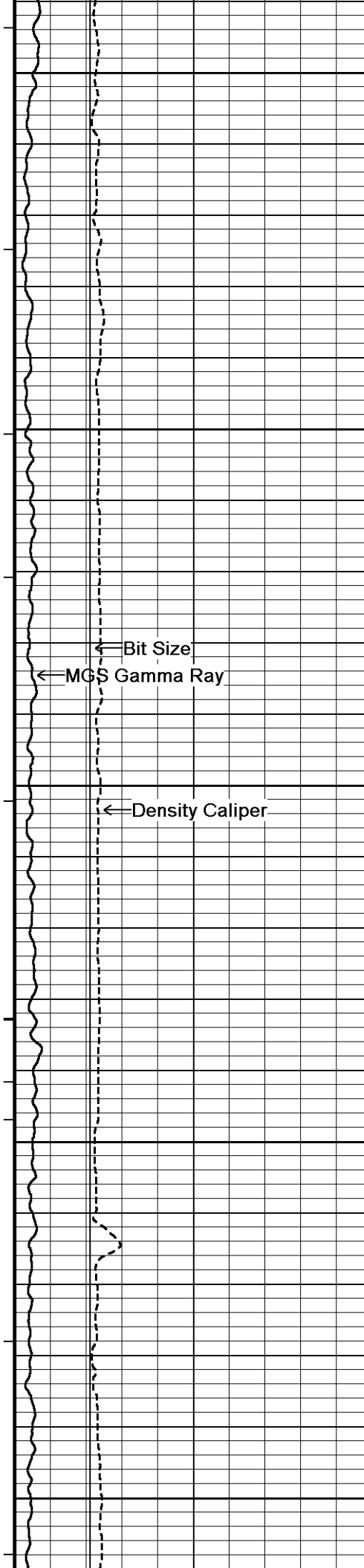
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6450

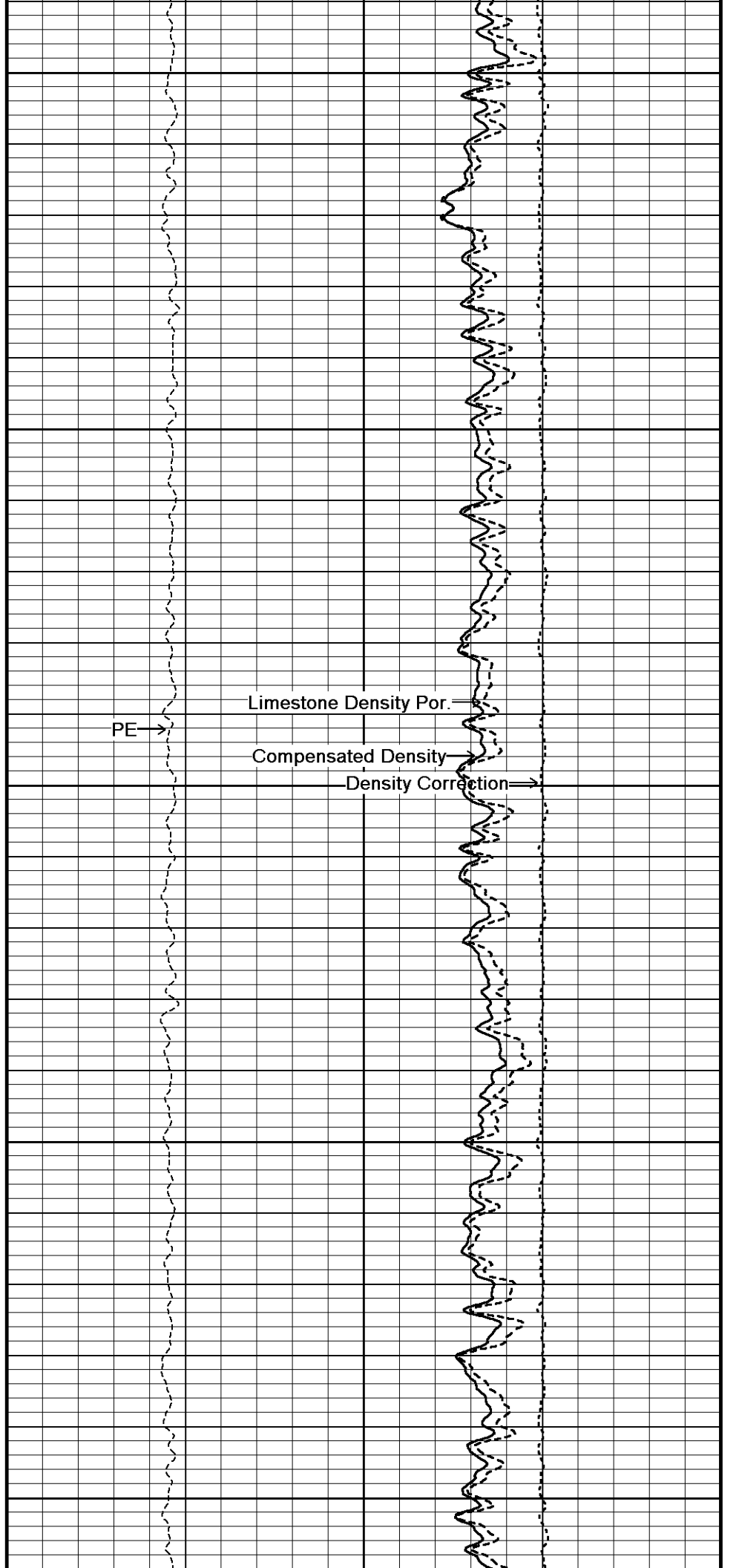
6500

6550



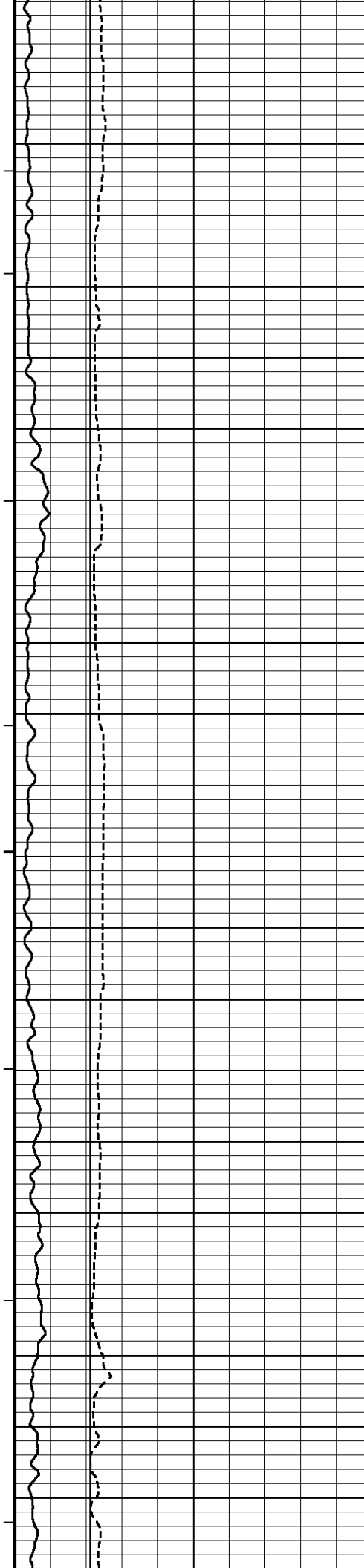


6600  
6650  
6700  
6750  
6800



← Bit Size  
← MGS Gamma Ray  
← Density Caliper

PE →  
Limestone Density Por. →  
Compensated Density →  
Density Correction →

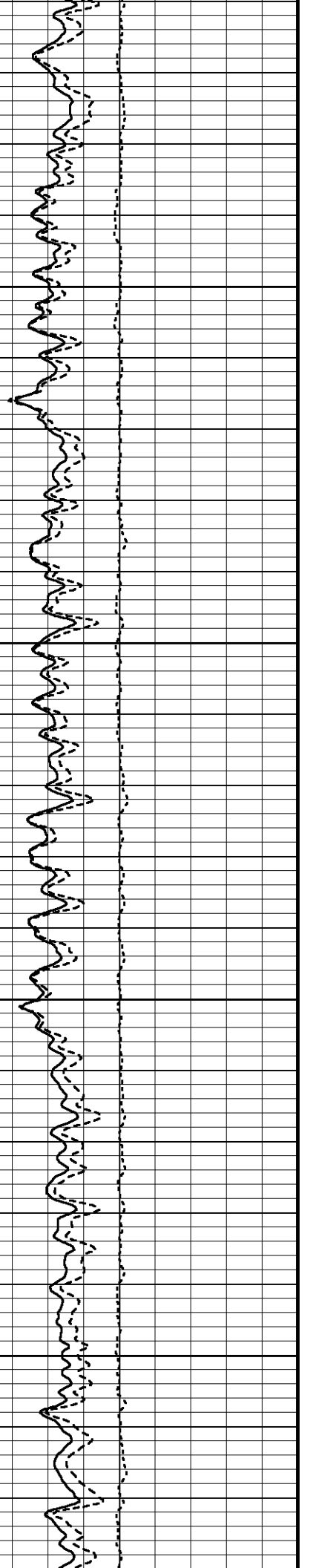
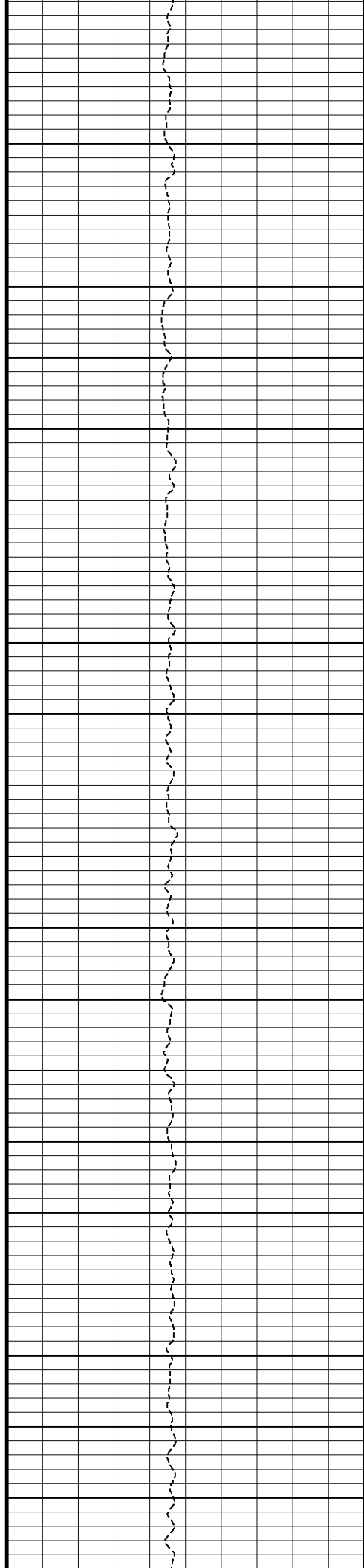


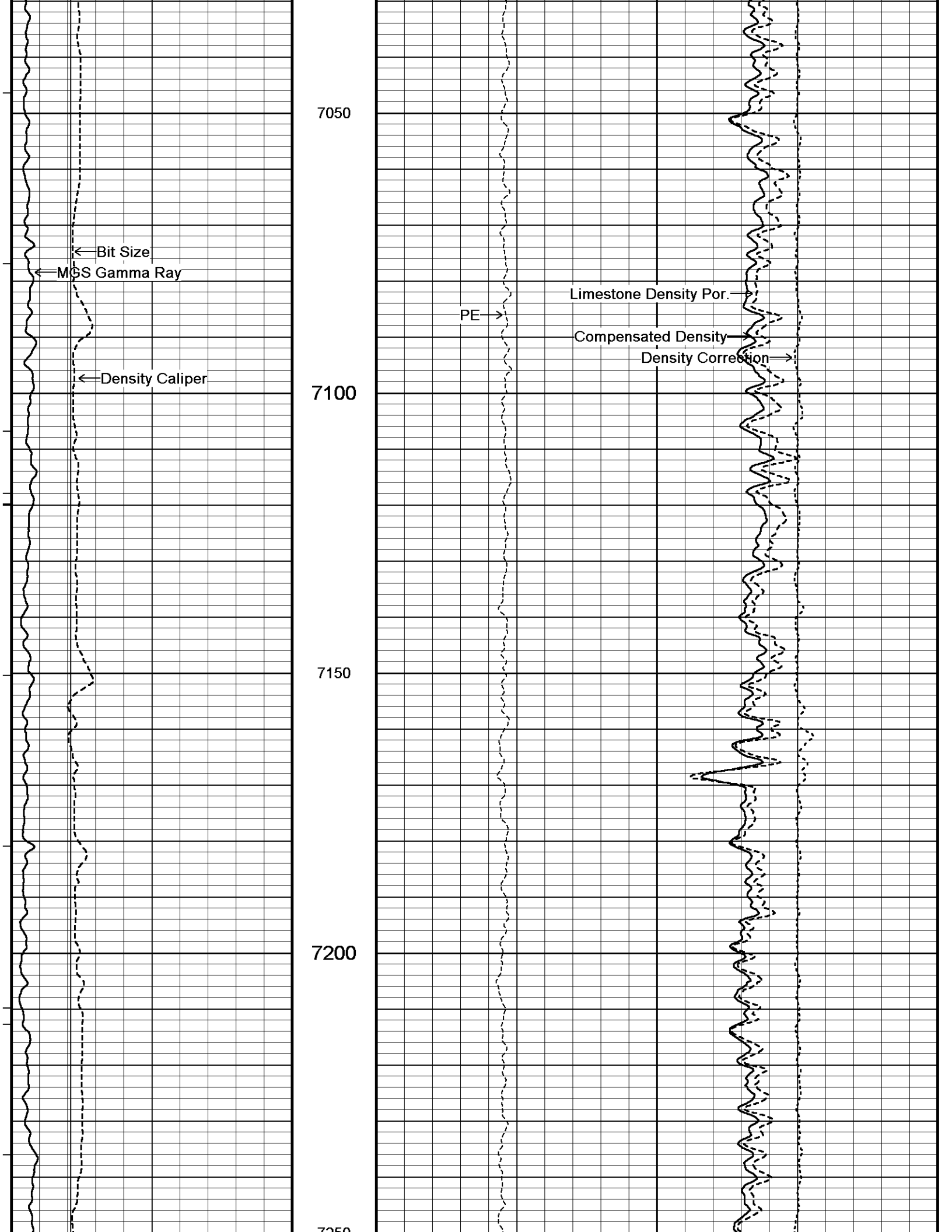
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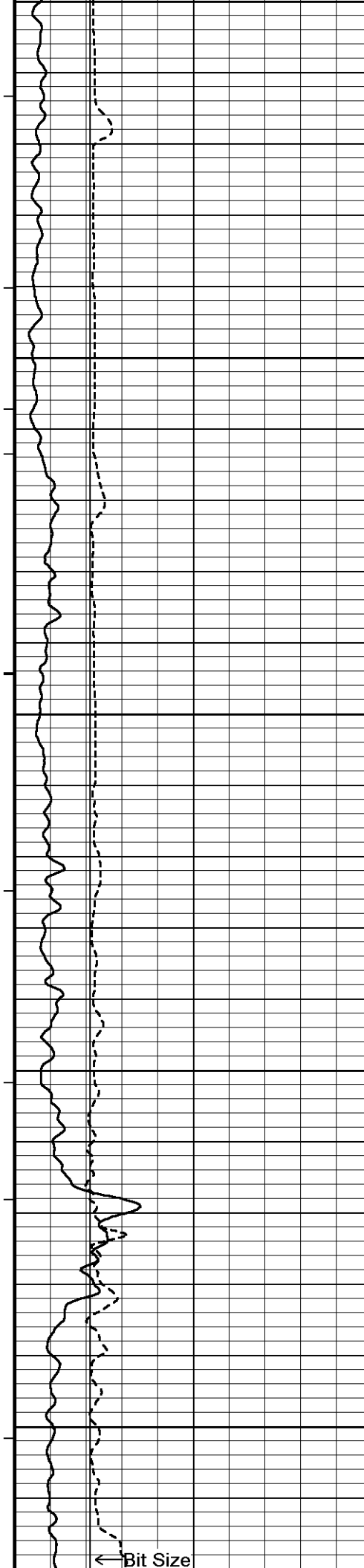
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6950

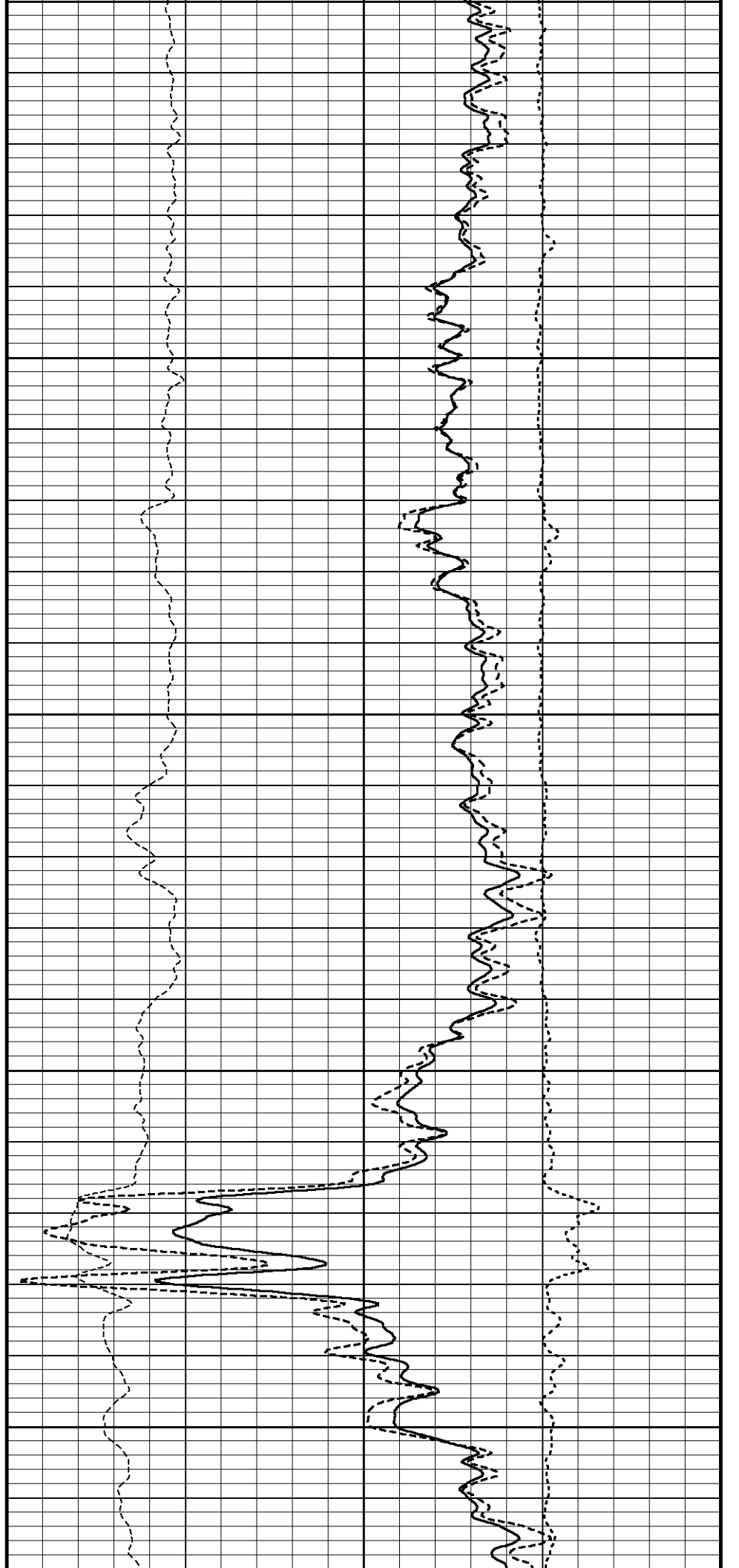
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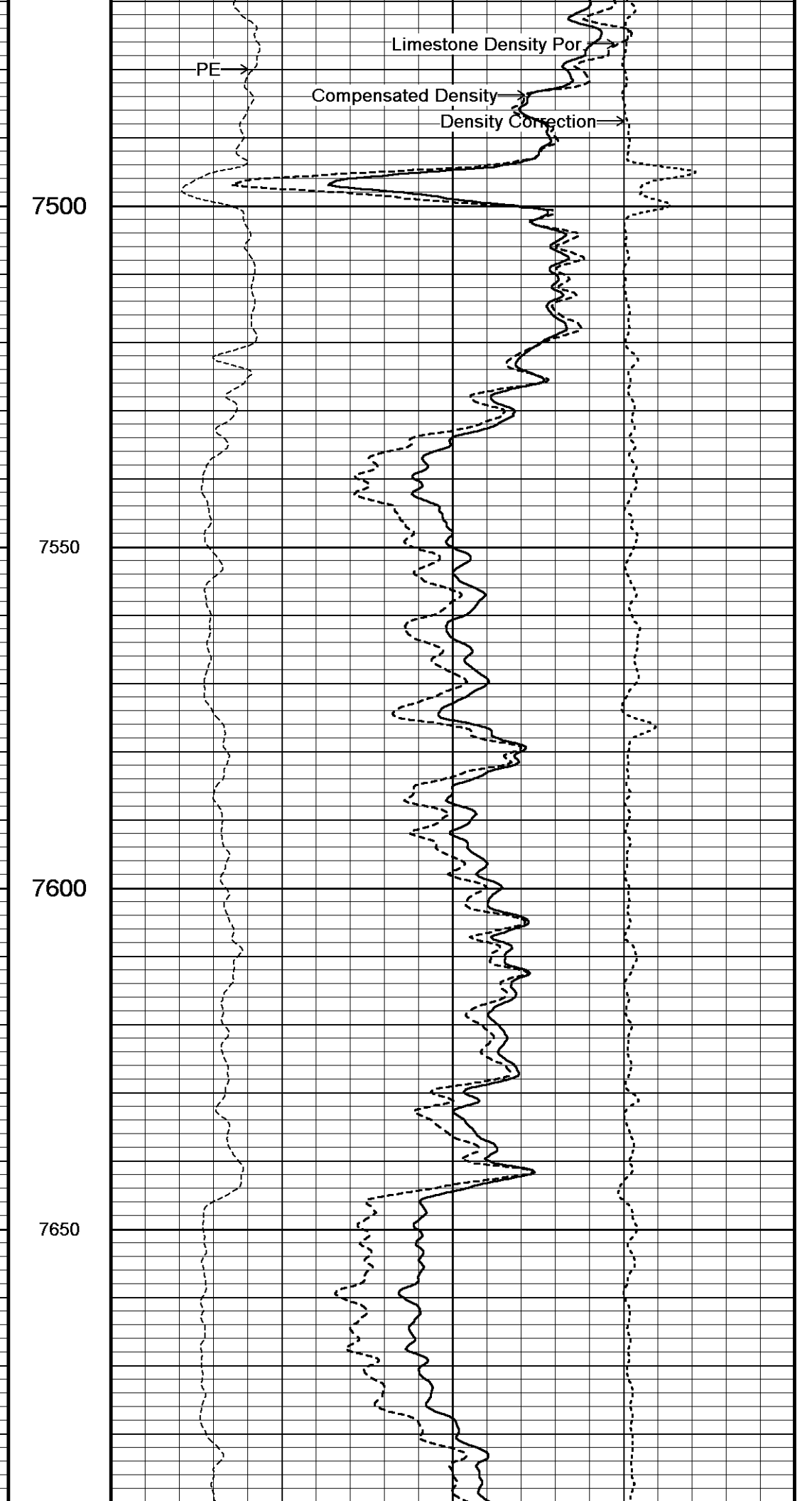
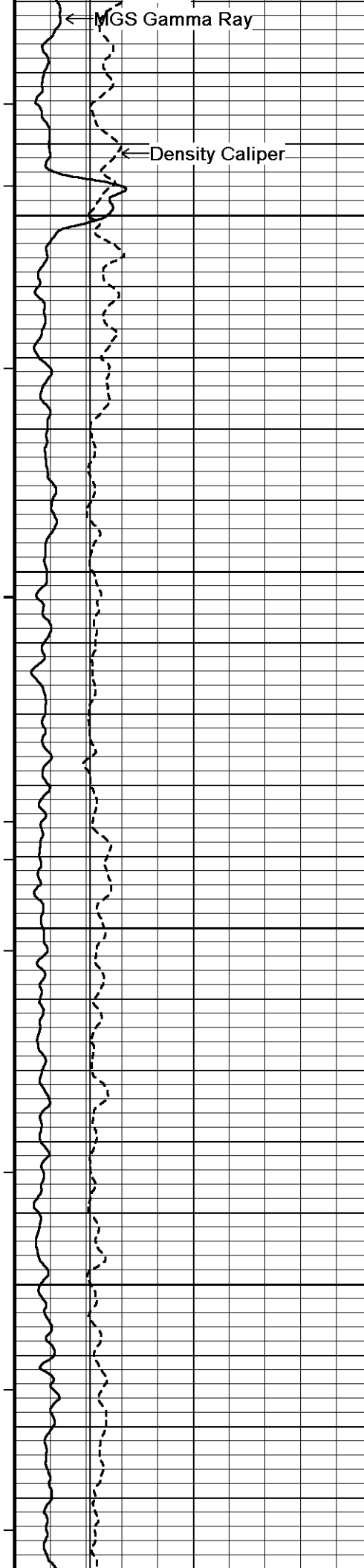




7250  
7300  
7350  
7400  
7450

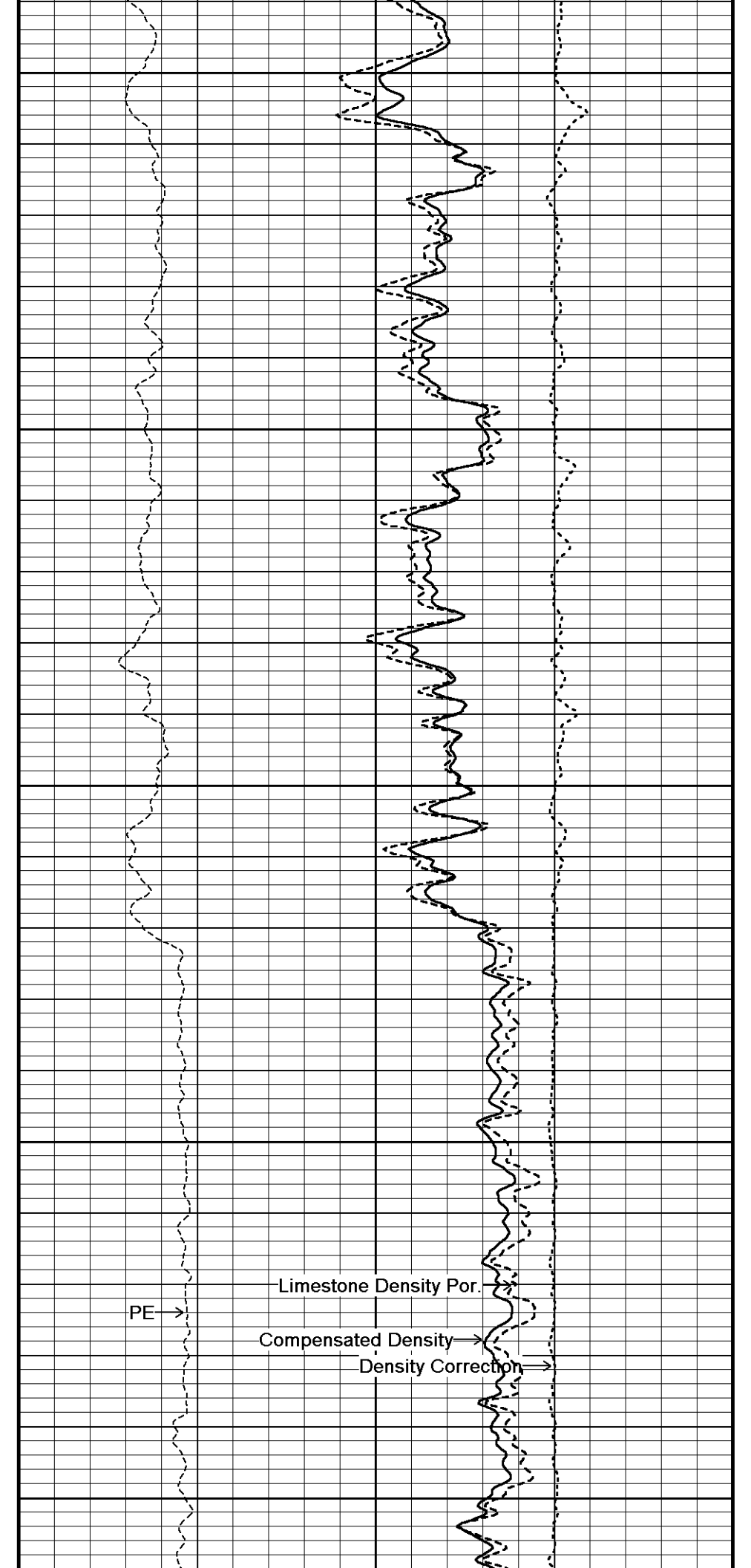


← Bit Size



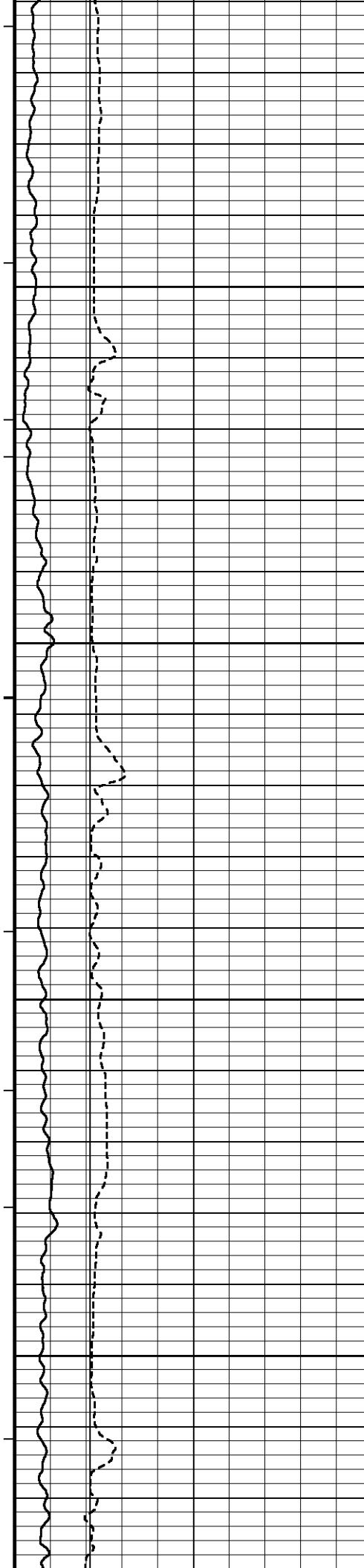


7700  
7750  
7800  
7850  
7900



← Bit Size  
← MGS Gamma Ray  
← Density Caliper

PE →  
Limestone Density Por. →  
Compensated Density →  
Density Correction →

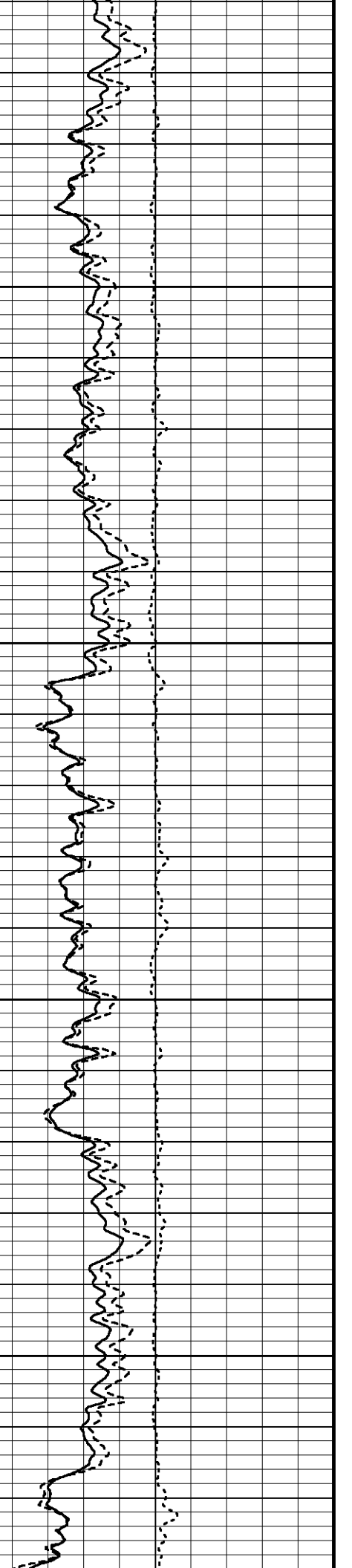
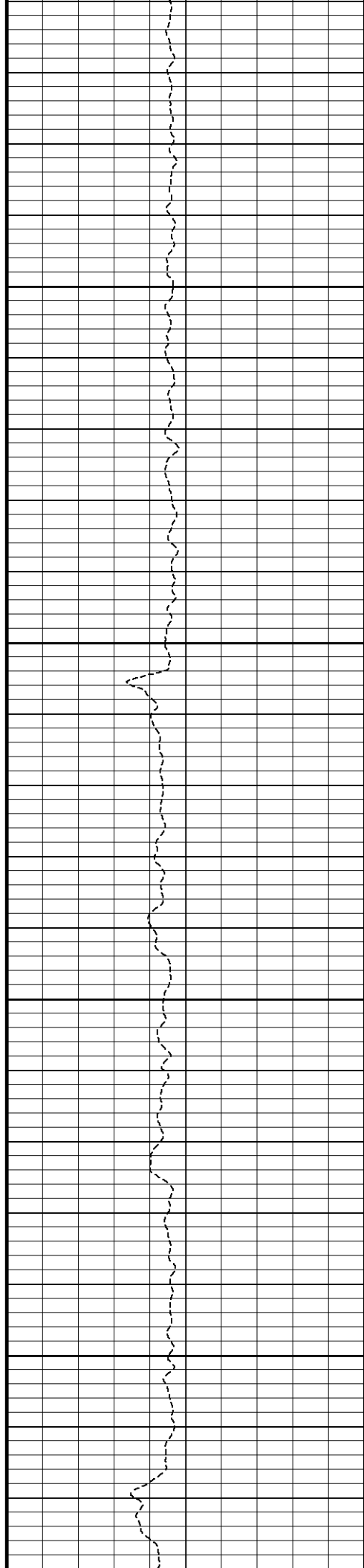


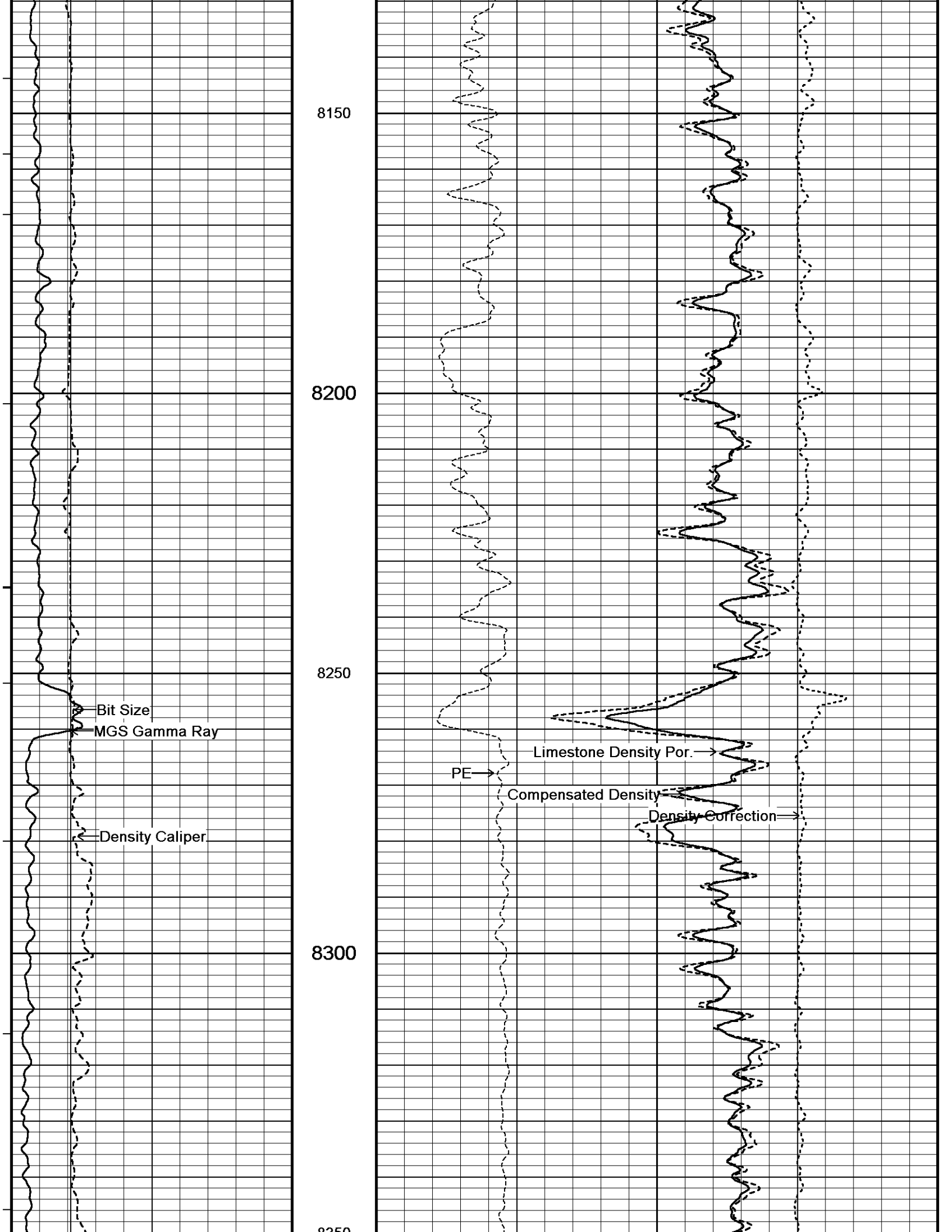
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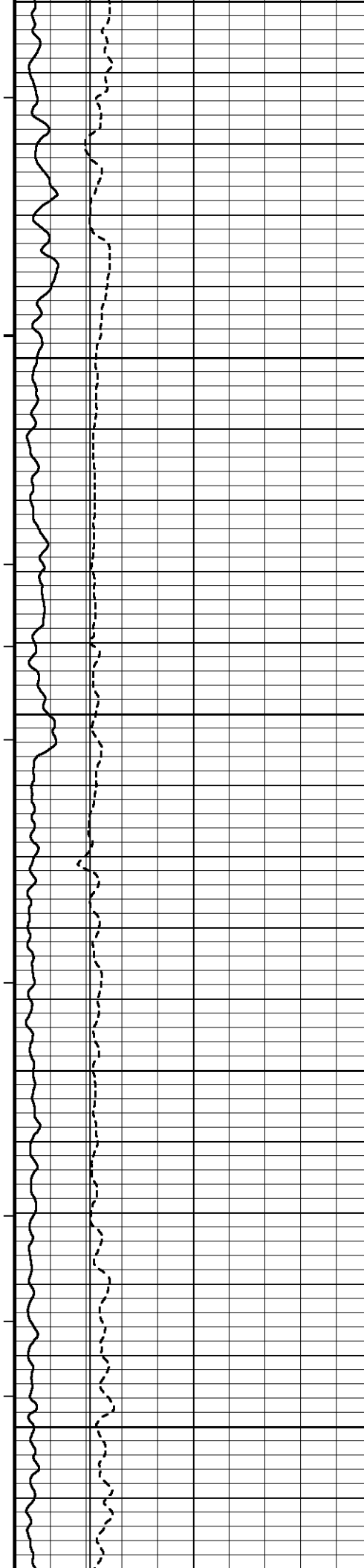
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8050

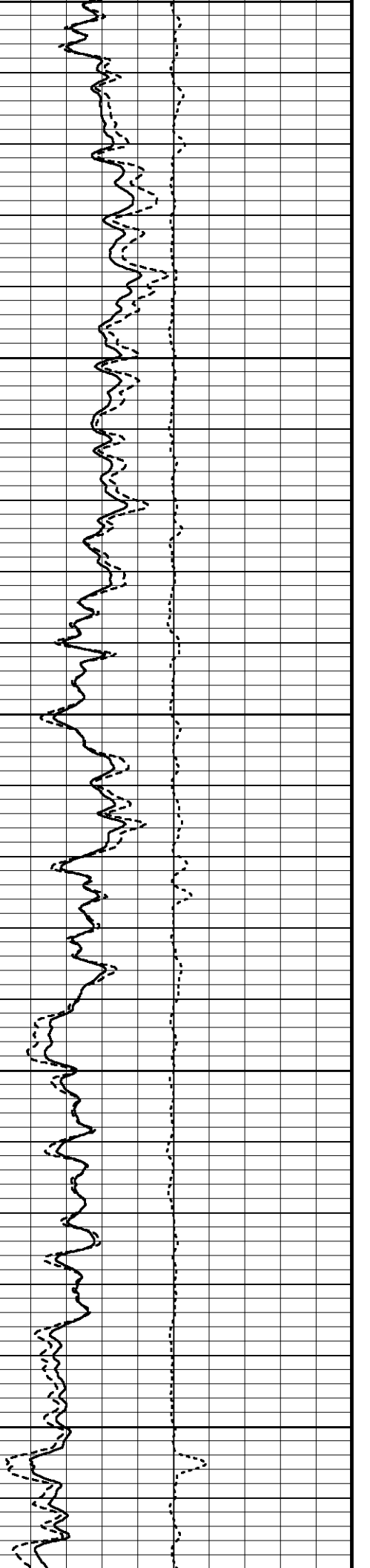
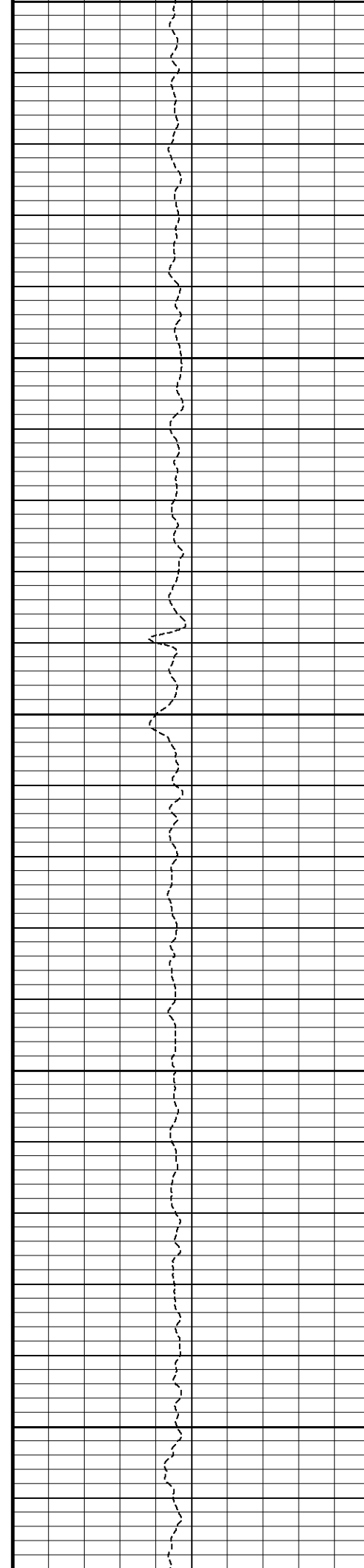
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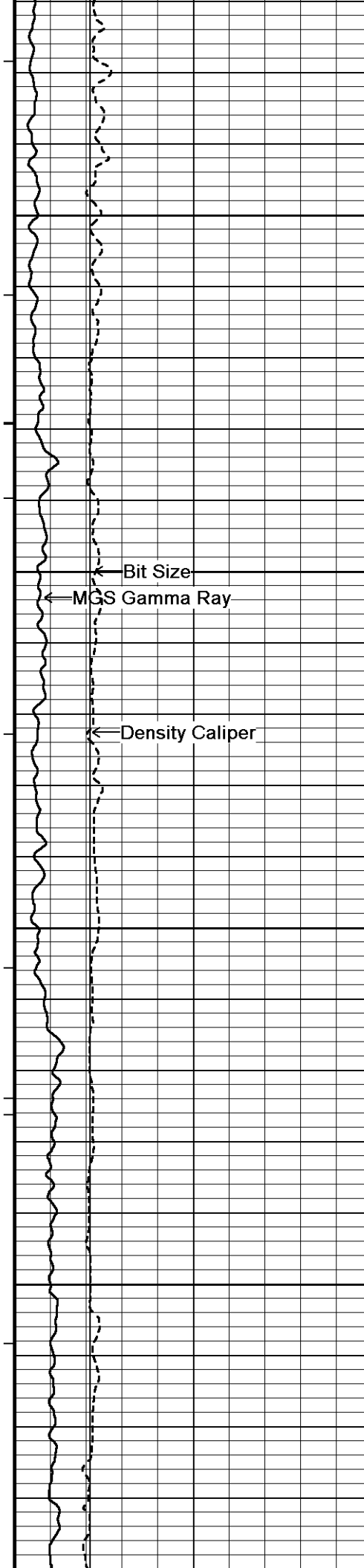






8550  
8400  
8450  
8500  
8550





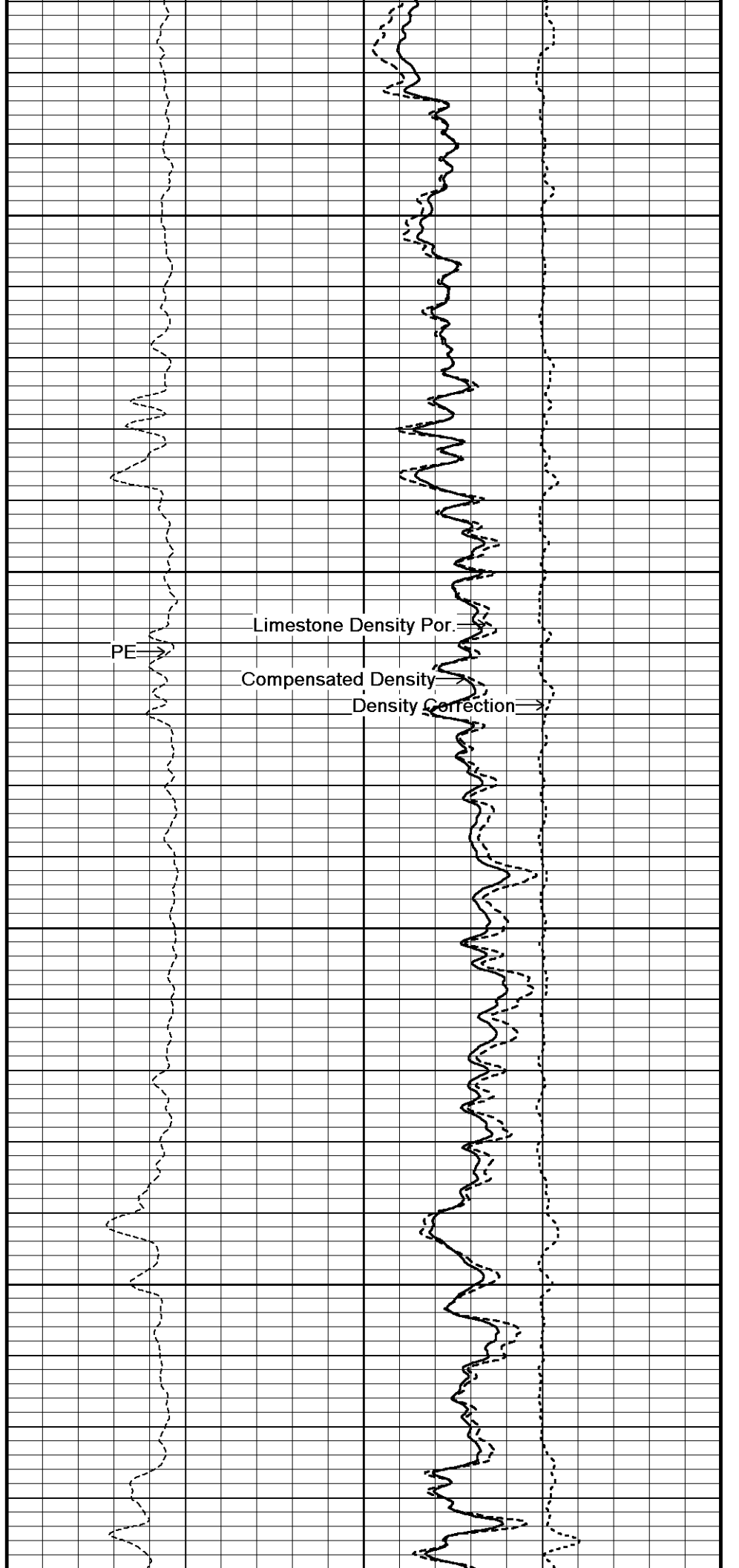
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8650

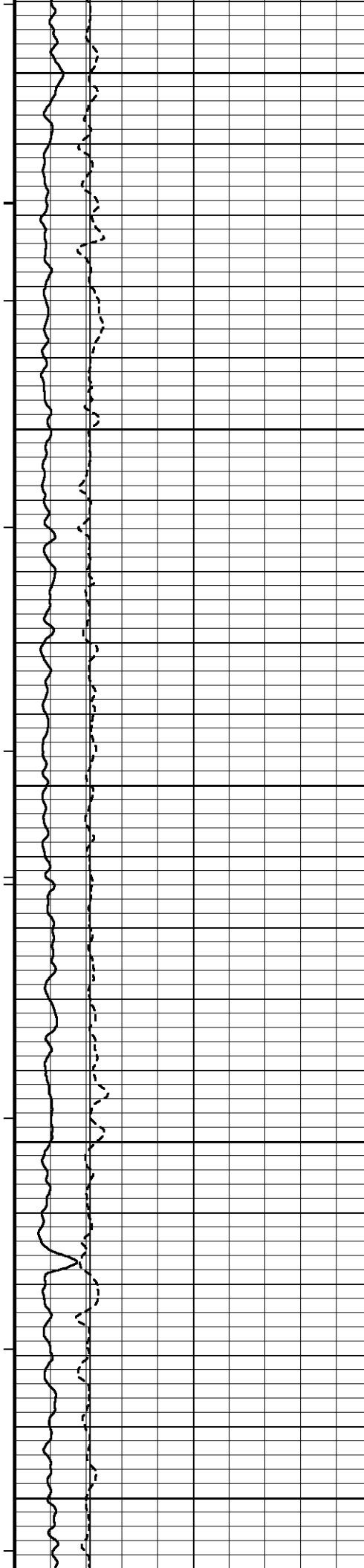
8700

8750

← Bit Size  
← MGS Gamma Ray  
← Density Caliper



PE →  
Limestone Density Por. →  
Compensated Density →  
Density Correction →



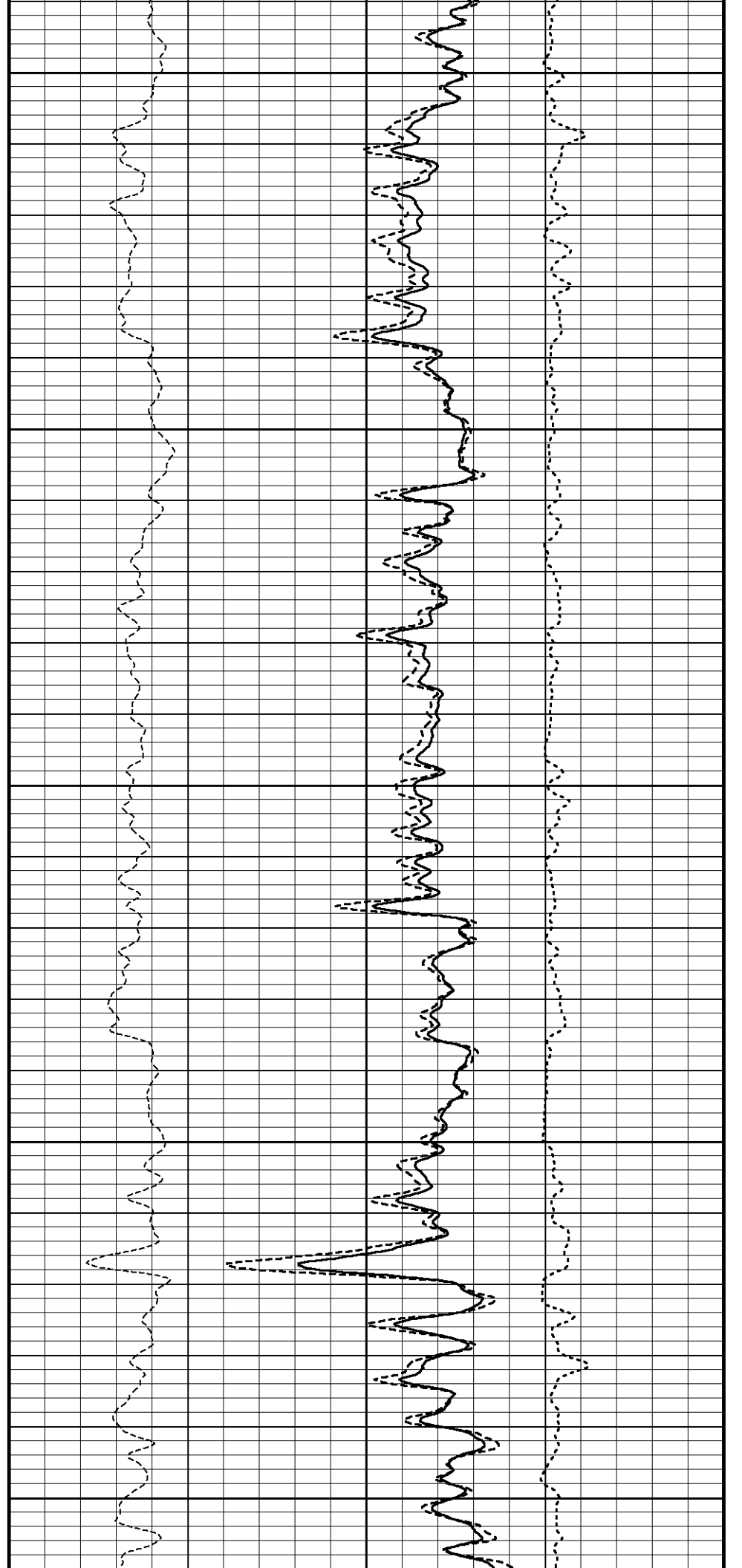
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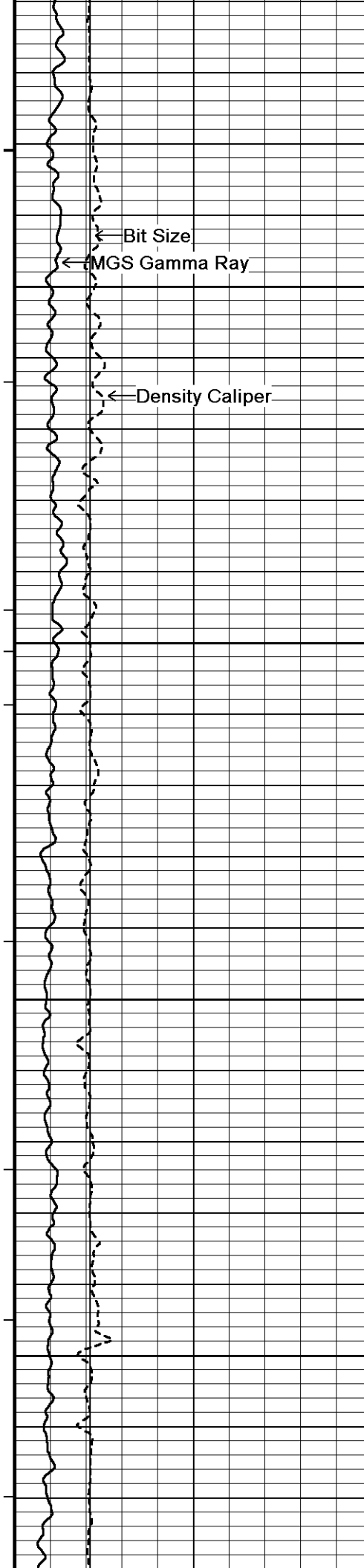
8850

8900

8950

9000



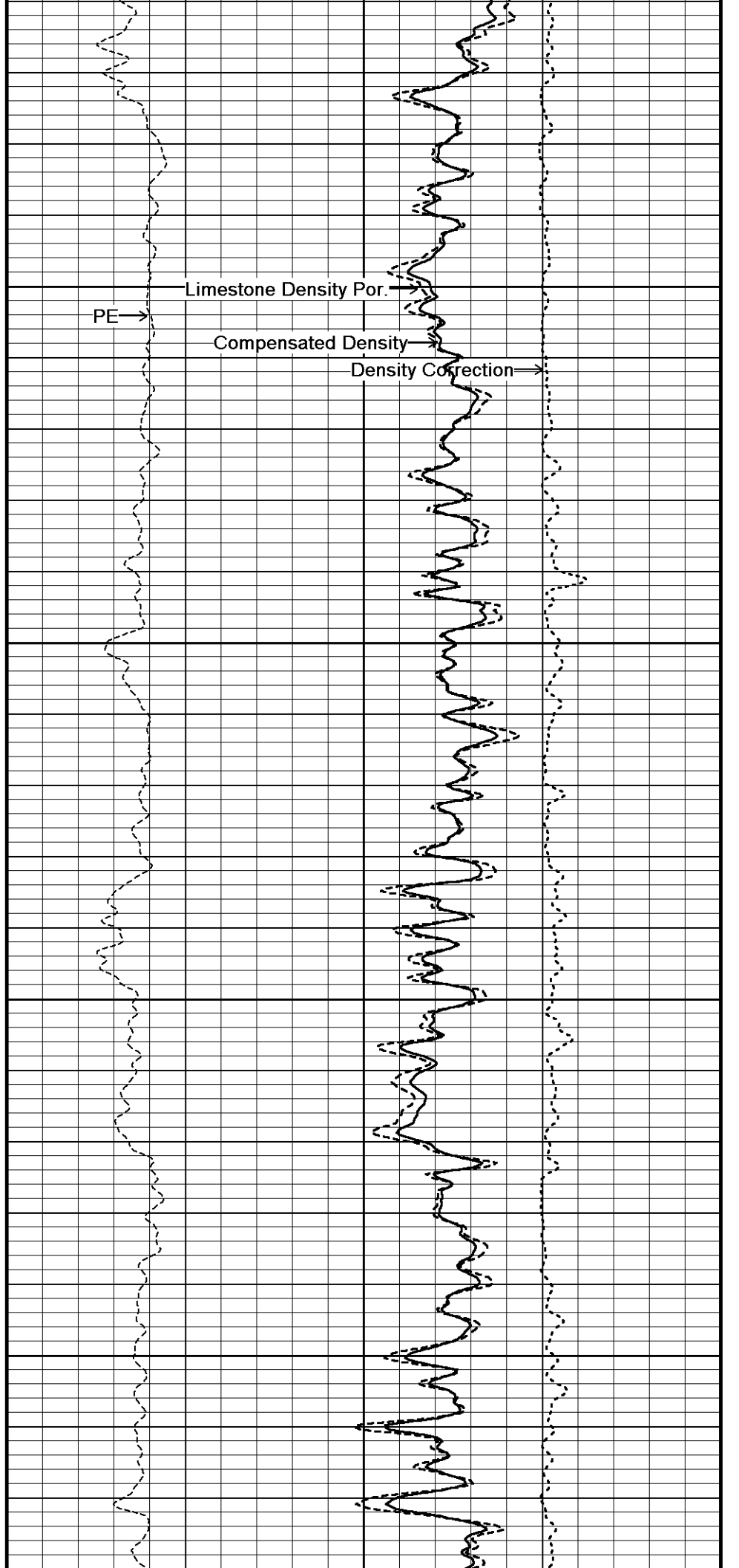


9050

9100

9150

9200

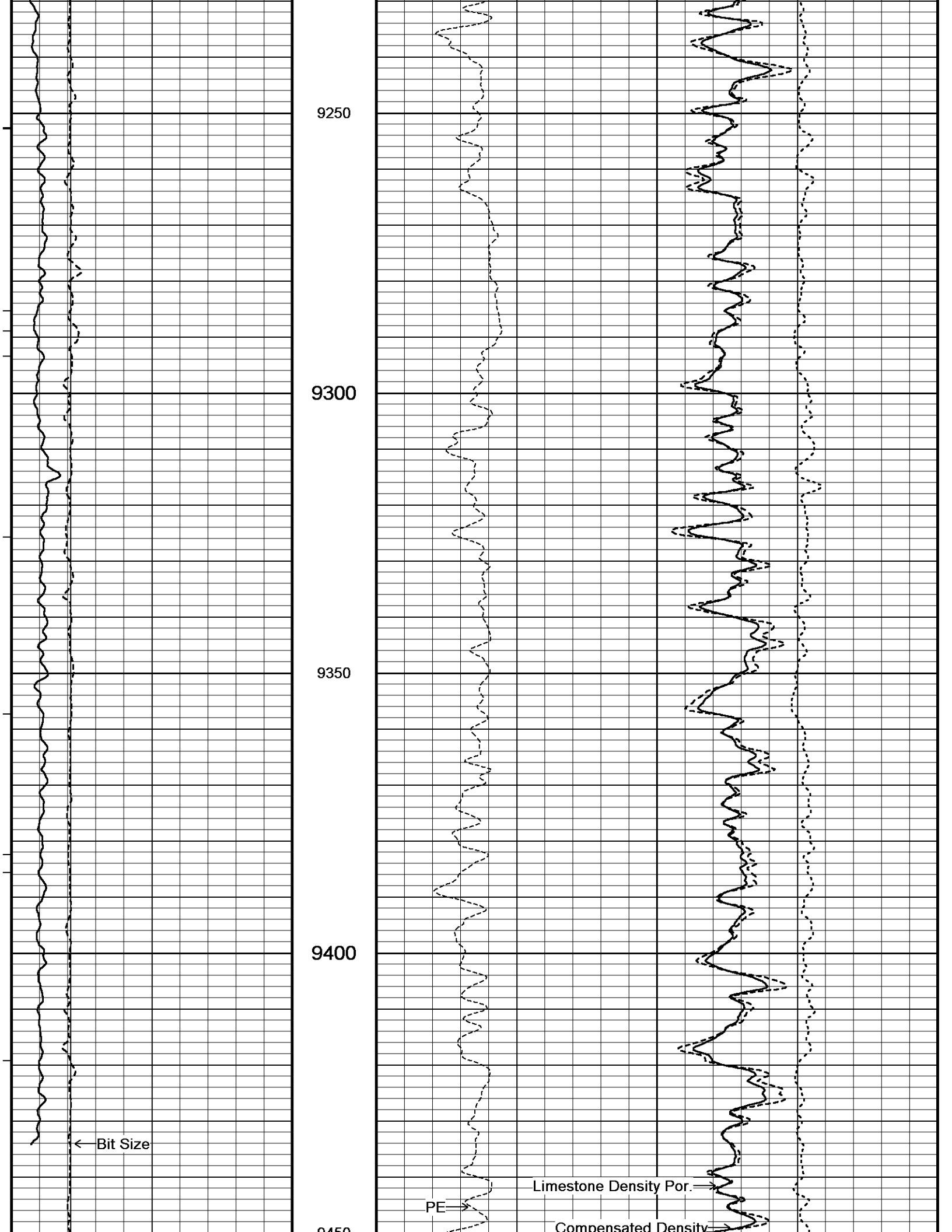


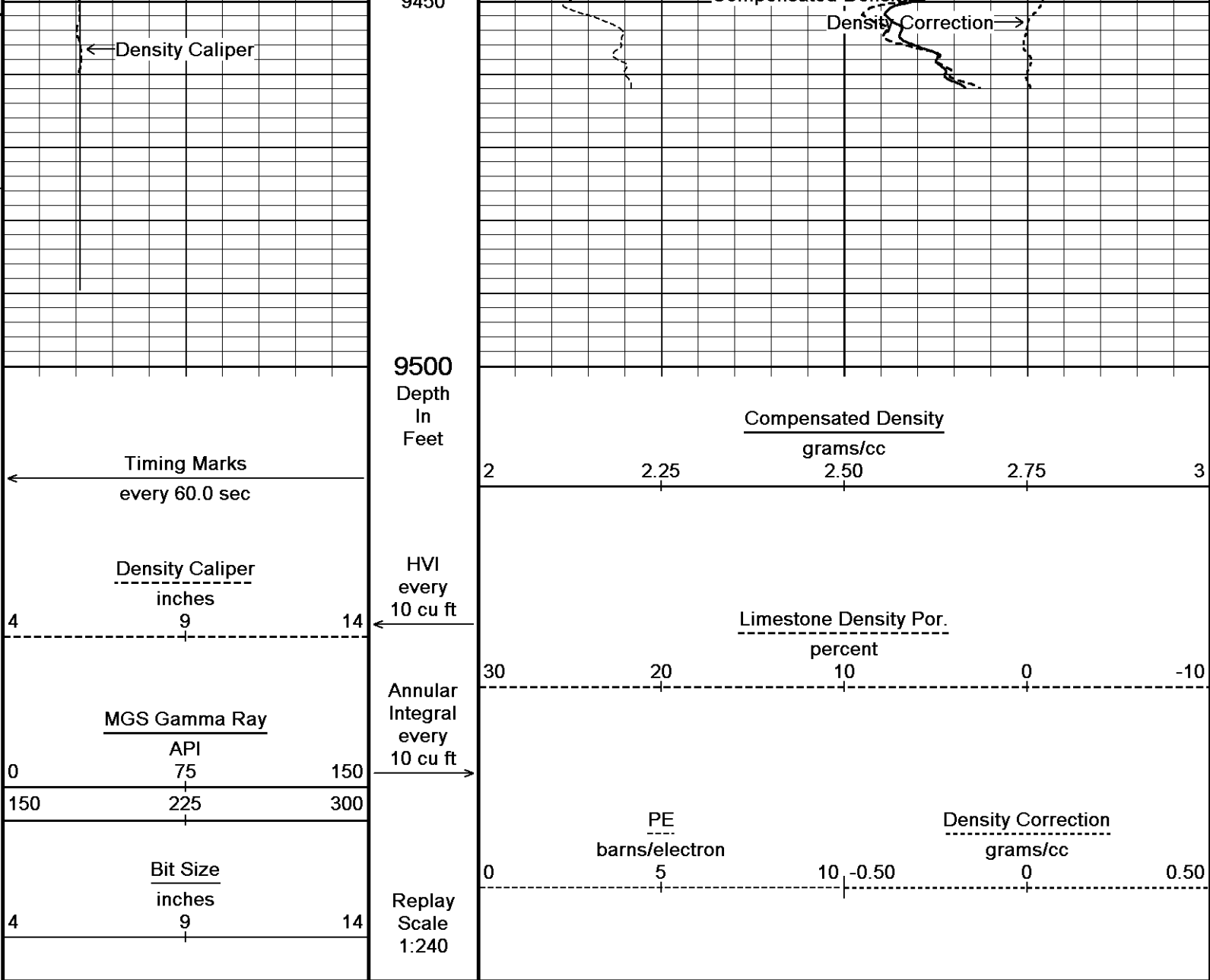
PE →

Limestone Density Por.

Compensated Density

Density Correction





Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\13\_05\_9583\DATA\SANDRIDGE(ANITA 3420 2-12H)\27342 RTAP.dta  
 System Versions: Processed with 13.05.9583 Plotted with 13.05.9583  
 Plotted on 22-APR-2013 17:06  
 Recorded on 22-APR-2013 16:13

5 INCH BULK DENSITY DSC

**BEFORE SURVEY CALIBRATION**  
 C:\13\_05\_9583\DATA\SANDRIDGE(ANITA 3420 2-12H)\27342 RTAP.dta

General Constants All 000 Last Edited on 22-APR-2013,16:26

General Parameters  
 Mud Resistivity 1.900 ohm-metres  
 Mud Resistivity Temperature 67.000 degrees F  
 Water Level 0.000 feet  
 Borehole Fluid Processing Wet Hole

Hole/Annular Volume and Differential Caliper Parameters  
 HVOL Method Single Caliper  
 HVOL Caliper 1 None  
 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. One Res Rt
RWA Constant A	0.610
RWA Constant M	2.150
SW/APOR Tool Source	0.000

Down-hole Tension Calibration SMS 0

Field Calibration on 07-FEB-2006 14:19

Reading No	Measured	
1	16292.42	0.00
2	17072.79	420.00

Strain Gauge Constants MMS-E.B 165

Last Edited on 05-MAR-2013,02:14

Atmospheric Pressure	14.70	psi						
Serial Number	262778							
Calibration Date	28-Dec-2010							
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.	Inc.	Dec.	Inc.	Dec.
0.0	-0.111	-0.111	-0.108	-0.107	-0.109	-0.109	-0.117	-0.117
3000.0	5.068	5.069	5.072	5.072	5.070	5.071	5.061	5.063
6000.0	10.256	10.260	10.261	10.264	10.260	10.263	10.250	10.254
9000.0	15.454	15.459	15.460	15.464	15.459	15.463	15.449	15.455
12000.0	20.663	20.666	20.669	20.672	20.669	20.673	20.661	20.665
15000.0	25.884		25.891		25.893		25.885	

MMS Parameters MMS-E.B 165

Last Edited on 21-APR-2013 13:17

Logging Parameters

Firmware Version	2v40	
Caliper Open On	MAI	
Caliper Open Delay		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	0.0	

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	1613.0	seconds
Pulse Pressure Discriminator	3690.0	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		seconds
Caliper Open To	210.0	seconds

Configuration

MMS,MGS,MDN,MPD,MPD,MFE,MAI

Gamma Calibration MGS-C.J 108

Field Calibration on 21-APR-2013 13:13

	Measured	Calibrated (API)
Background	72	33
Calibrator (Gross)	1948	890
Calibrator (Net)	1876	857

## Gamma Constants MGS-C.J 108

Last Edited on 22-APR-2013,10:21

Gamma Calibrator Number	GRCG073	
Mud Density	1.02	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

## SP Calibration MGS-C.J 108

Field Calibration on 15-APR-2013,10:33

	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 15-APR-2013,10:33

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

## High Resolution Temperature Constants MGS-C.J 108

Last Edited on 15-APR-2013,10:33

Pre-filter Length	11
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## Neutron Calibration MDN-B.J 422

Base Calibration on 02-APR-2013 09:27

Field Check on 21-APR-2013 13:05

Base Calibration					
	Measured		Calibrated (cps)		
	Near	Far	Near	Far	
	3035	92	3714	110	
Ratio	32.903		33.764		
Field Calibrator at Base					
			Calibrated (cps)		
			2275	3356	
Ratio	0.678				
Field Check					
			Calibrated (cps)		
			1246	1866	
Ratio	0.668				

## Neutron Constants MDN-B.J 422

Last Edited on 21-APR-2013,12:58

Neutron Source Id	HN553	
Neutron Jig Number	N639	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.02	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	MGS External Temperature	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

## FE Calibration MFE-C.A 396

Base Calibration on 01-APR-2013 12:14

Field Check on 21-APR-2013 12:53

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0

Reference 2	961.7	126.8
Base Check		281.8
Field Check		281.8

FE Constants MFE-C.A 396

Last Edited on 21-APR-2013,12:52

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MGS External Temperature	
Stand-off	0.5	inches

Induction Calibration MAI-B.J 394

Base Calibration on 09-FEB-2013,18:02  
Field Check on 21-APR-2013 12:52

Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	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)	
		Low	High	Low	High
1		0.0	0.0	14.5	3833.3
2		0.0	0.0	32.5	3651.7
3		0.0	0.0	29.4	3084.1
4		0.0	0.0	19.8	2068.9
Deep				16.6	1912.3
Medium				43.7	4145.1
Shallow				50.6	5538.7
Array Temperature		0.0		78.0	Deg F

Induction Constants MAI-B.J 394

Last Edited on 22-APR-2013,16:26

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 394

Field Calibration on 03-APR-2013,14:52

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

### High Resolution Temperature Constants MAI-B.J 394

Last Edited on 03-APR-2013,14:52

Pre-filter Length	11
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### Caliper Calibration MPD-D.A 472

Base Calibration on 01-APR-2013 11:55

Field Calibration on 15-APR-2013 10:26

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	18294	4.00
2	27757	5.98
3	37451	7.96
4	47445	9.86
5	58536	11.88
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	5.98	5.98

### Photo Density Calibration MPD-D.A 472

Base Calibration on 01-APR-2013 11:33

Field Check on 21-APR-2013 12:58

Density Calibration					
Base Calibration		Measured		Calibrated (sdu)	
	Near	Far	Near	Far	
Reference 1	59828	30798	59494	30754	
Reference 2	25544	2871	26398	2598	

Field Check at Base	1197.3	1459.7
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Field Check	1198.1	1465.0
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PE Calibration				
Base Calibration		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	232	1068		
Reference 1	26692	59617	0.452	0.367
Reference 2	8016	25400	0.320	0.270

Field Check at Base	232.5	1067.8
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Field Check	232.8	1069.6
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### Density Constants MPD-D.A 472

Last Edited on 22-APR-2013,10:22

Density Source Id	P74840B	
Nylon Calibrator Number	DNCE766	
Aluminium Calibrator Number	DHCG856	
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	
0.00	0.00	

## DOWNHOLE EQUIPMENT

C:\113\_05\_9583\DATA\SANDRIDGE(ANITA 3420 2-12H)\27342 RTAP.dta

Shuttle Running Tool 3.5"  
SRT-A.A 71 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in

MBS-F.A 200v Compact Battery Sub  
MBS-F.A 131 LG: 10.61 ft WT: 70.5 lb OD: 2.24 in

Compact Memory Sub E.B  
MMS-E.B 165 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.  
MTI-B.A 68 LG: 1.54 ft WT: 13.2 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 69 LG: 3.17 ft WT: 26.5 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

SHA-H Compact Swivel Head Adaptor  
SHA-H 185 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub  
MIS-D.B 603 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron  
MDN-B.J 422 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper  
MPD-D.A 472 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.B Compact Inline Bowspring sub  
MIS-D.B 733 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.B Compact Swivel Head Adaptor  
SHA-J.B 594 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint  
SKJ-D.A 140 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-B Compact Inline Standoff sub  
MIS-B 202 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Focussed Electric



61.76 ft GRGM - MGS Gamma Ray  
59.77 ft GSXT - MGS External Temperature

42.89 ft NPRL - Limestone Neutron Por.

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

MFE-C.A 396 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub  
MIS-E.B 595 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction  
MAI-B.J 394 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

Total Length: 88.36 ft Weight: 637.1 lb



- 3.34 ft CTAO - Array Ind. One Cond Ct
  - 3.34 ft R60O - Array Ind. One Res 60
  - 3.34 ft R40O - Array Ind. One Res 40
  - 3.34 ft R30O - Array Ind. One Res 30
  - 3.34 ft R85O - Array Ind. One Res 85
  - 3.34 ft RTAO - Array Ind. One Res Rt
  - Tool Zero (1.84ft from bottom)
- All measurements relative to tool zero.

COMPANY	SANDRIDGE ENERGY		
WELL	ANITA 3420 2-12H		
FIELD	COMANCHE PROSPECT		
PROVINCE/COUNTY	COMANCHE		
COUNTRY/STATE	USA / KANSAS		

Elevation Kelly Bushing	1816.00	feet	First Reading	9462.00	feet
Elevation Drill Floor	1816.00	feet	Depth Driller	9535.00	feet
Elevation Ground Level	1795.00	feet	Depth Logger	9535.00	feet



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CML MESSENGER SHUTTLE  
COMPACT PHOTO DENSITY  
COMPENSATED NEUTRON LOG