



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1179004
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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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

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1179004

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input 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 type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

COMPANY	FIML NATURAL RESOURCES, LLC			Elevations: KB 3119.00 DF 3117.00 GL 3109.00
WELL	GOOSSEN #8C-32-932			
FIELD	WILDCAT			
PROVINCE/COUNTY	THOMAS			
COUNTRY/STATE	U.S.A. / KANSAS			
LOCATION	2060' FNL & 1118' FEL			
SEC	TWP	RGE	Other Services	
32	9S	32W	MAI/MFE	
API Number	15-193-20906		MSS	
Permit Number				
Permanent Datum GL, Elevation	3109 feet			
Log Measured From	KB			
Drilling Measured From	KB			
Date	15-DEC-2013			
Run Number	ONE			
Service Order	3547630			
Depth Driller	4950.00 feet			
Depth Logger	4952.00 feet			
First Reading	4920.00 feet			
Last Reading	537.00 feet			
Casing Driller	536.00 feet			
Casing Logger	537.00 feet			
Bit Size	7.875 inches			
Hole Fluid Type	CHEMICAL			
Density / Viscosity	8.80 lb/USg	59.00 CP		
PH / Fluid Loss	11.00	6.40 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.31 @ 96.0	ohm-m		
Rmf @ Measured Temp	1.05 @ 96.0	ohm-m		
Rmc @ Measured Temp	1.57 @ 96.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.94 @ 134.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	134.00	deg F		
Equipment / Base	13096	LIB		
Recorded By	ADAM SILL			
Witnessed By	GARY DOKE			
JOB #	LB13-355			

BOREHOLE RECORD			Last Edited: 15-DEC-2013 06:37
Bit Size inches	Depth From feet	Depth To feet	
7.875	536.00	4950.00	
CASING RECORD			
Type	Size inches	Depth From feet	Shoe Depth feet
SURFACE	8.625	0.00	536.00
			Weight pounds/ft
			24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.05.9583.

- MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 0.5 INCH STANDOFF USED ON MFE.
 TWO 0.5 INCH STANDOFFS USED ON MSS.
 0.5 INCH STANDOFF USED ON MAI.

- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.

- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.

- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1591 CU. FT.

- ANNULAR HOLE VOLUME WITH 5.5 INCH CASING FROM TD TO SURFACE CASING: 865 CU. FT.

- RIG: H-2 DRILLING #1

- ENGINEER: ADAM SILL.

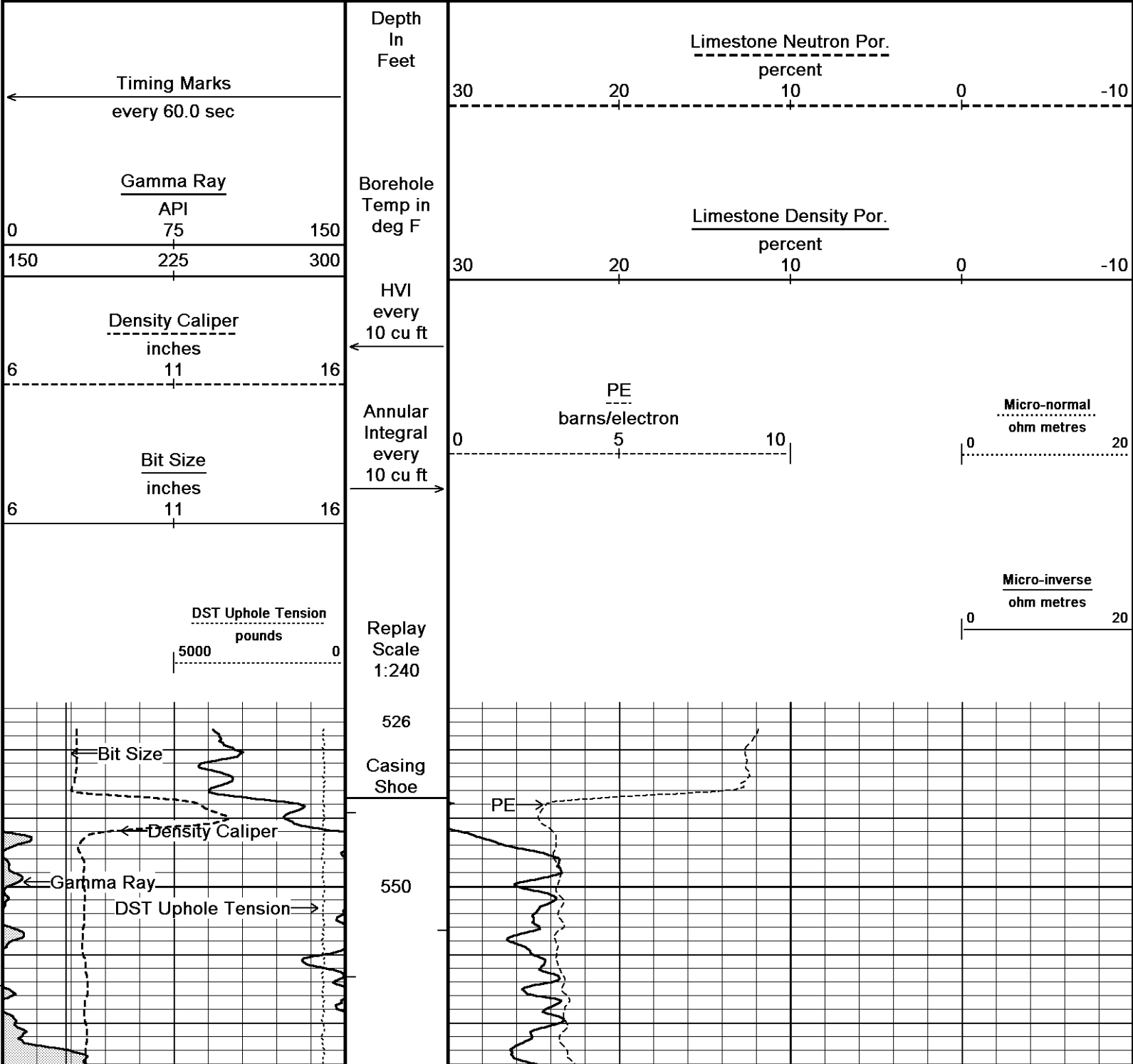
- OPERATOR(S): JOHN DUNLAP.

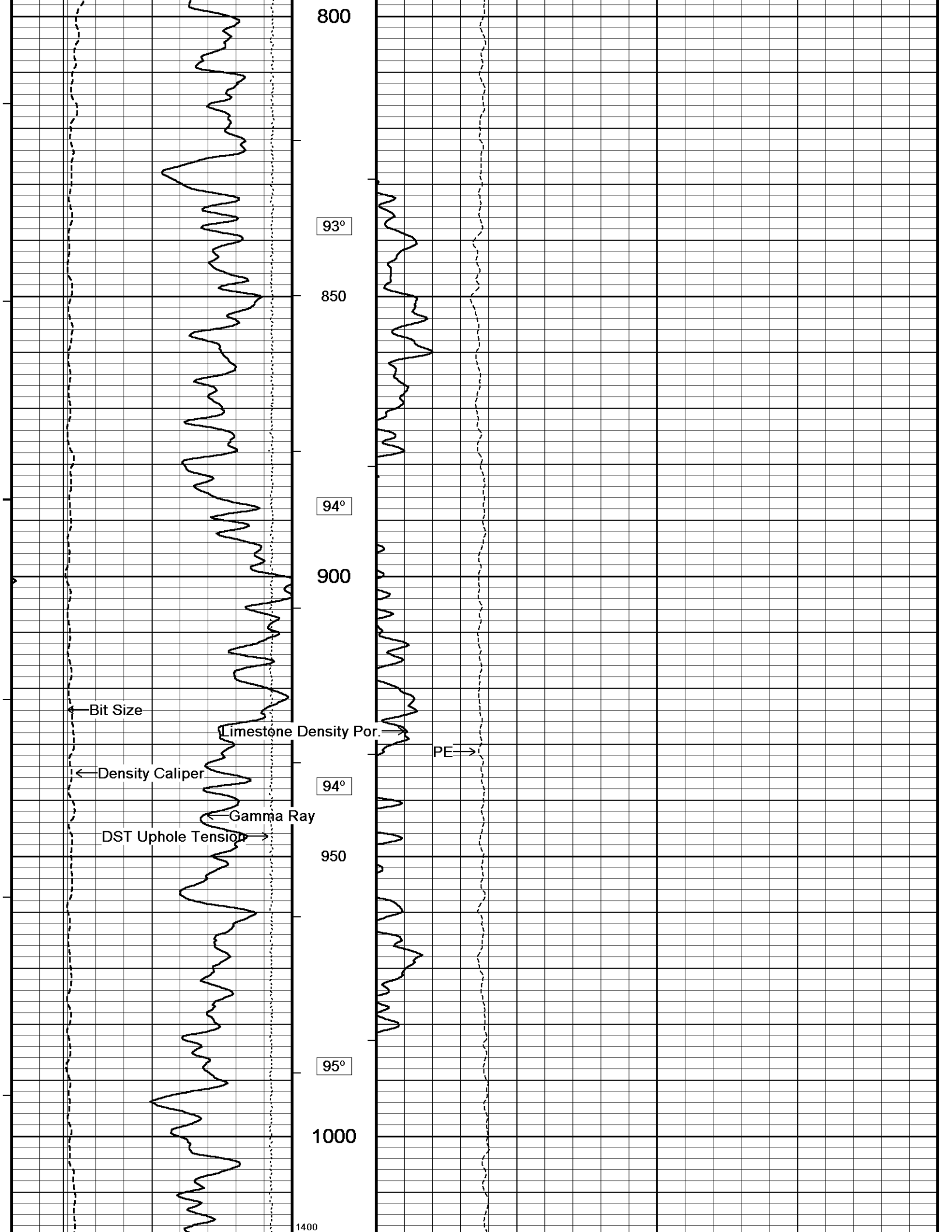
**** SP SHIFTED IN A COUPLE PLACES ON THE LOG DUE TO AN UNKNOWN CAUSE. ****

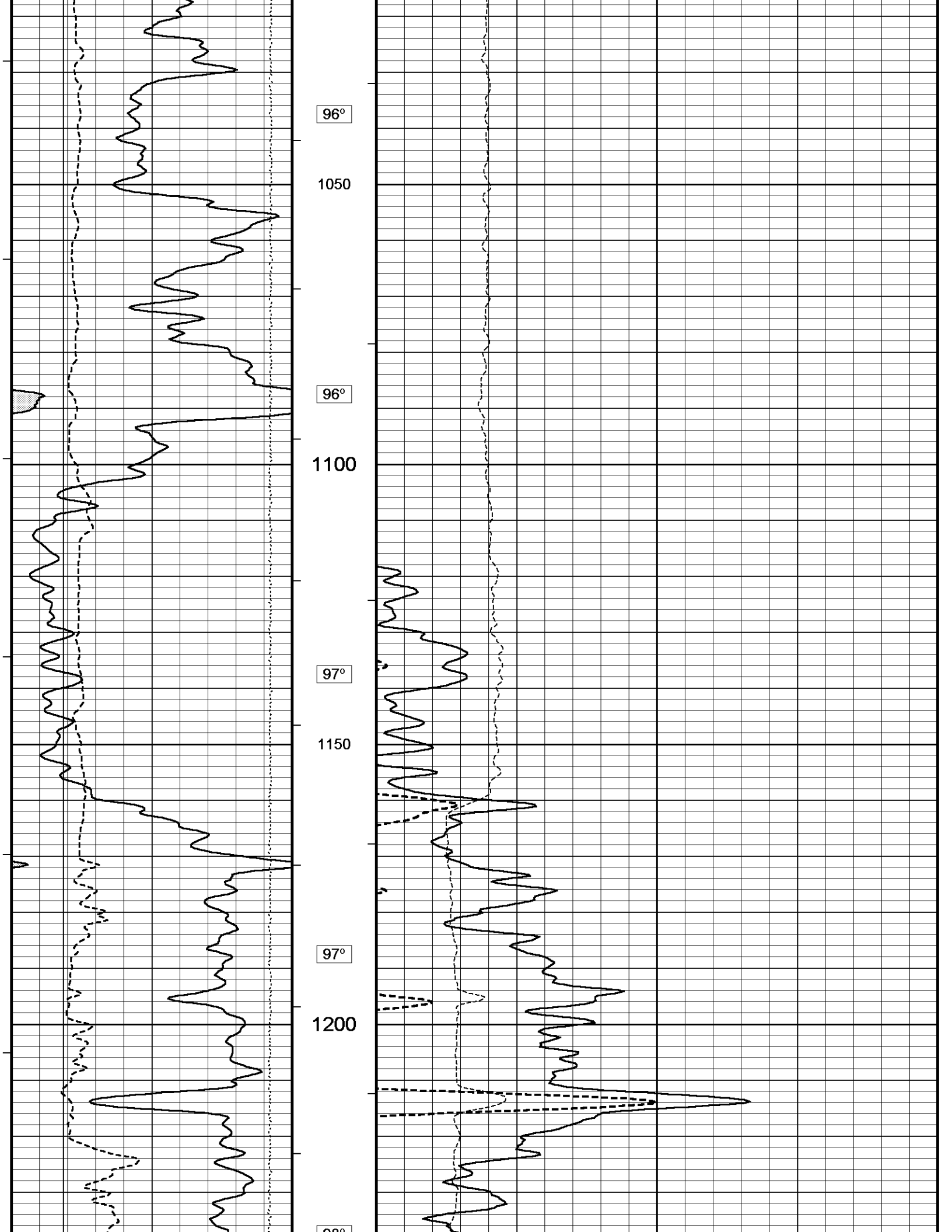
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

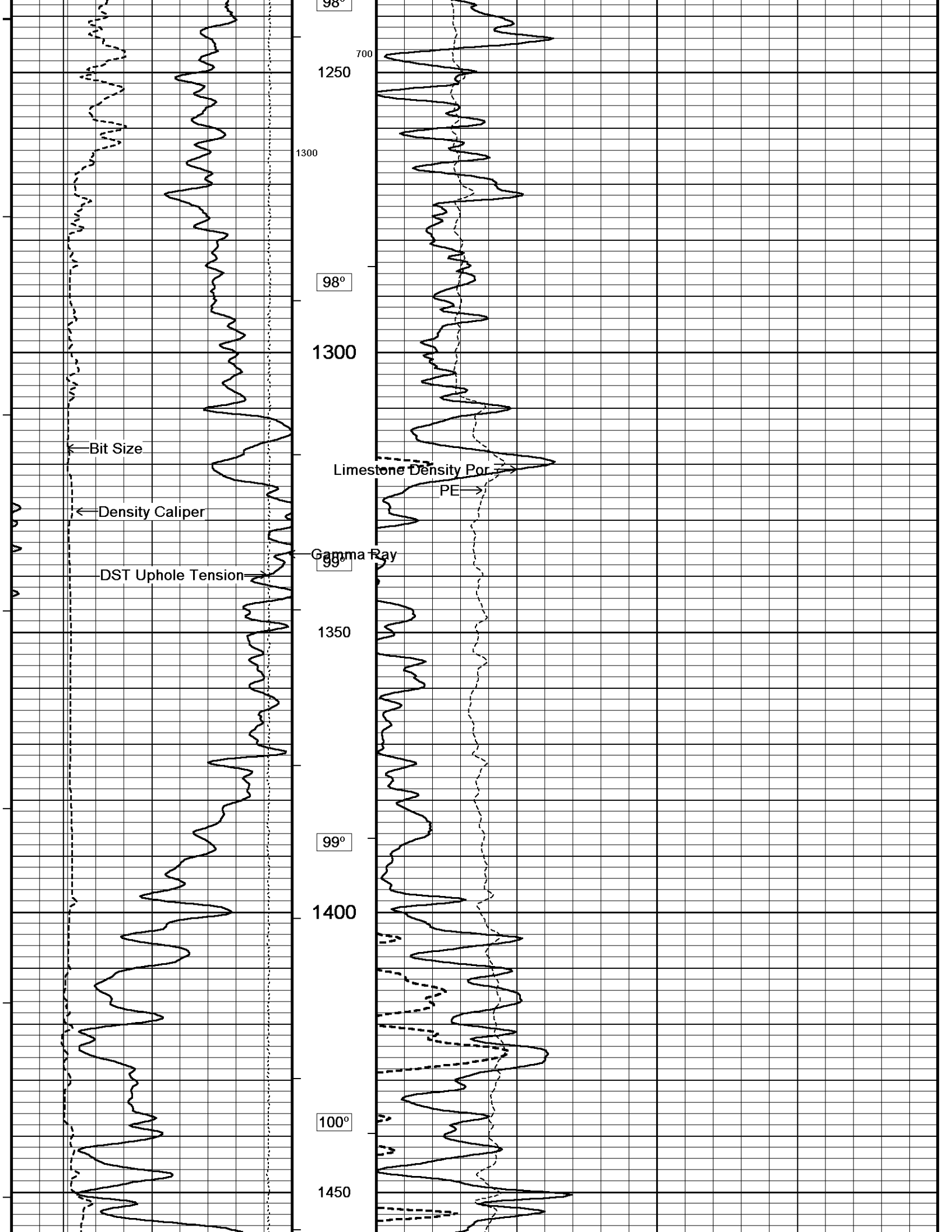
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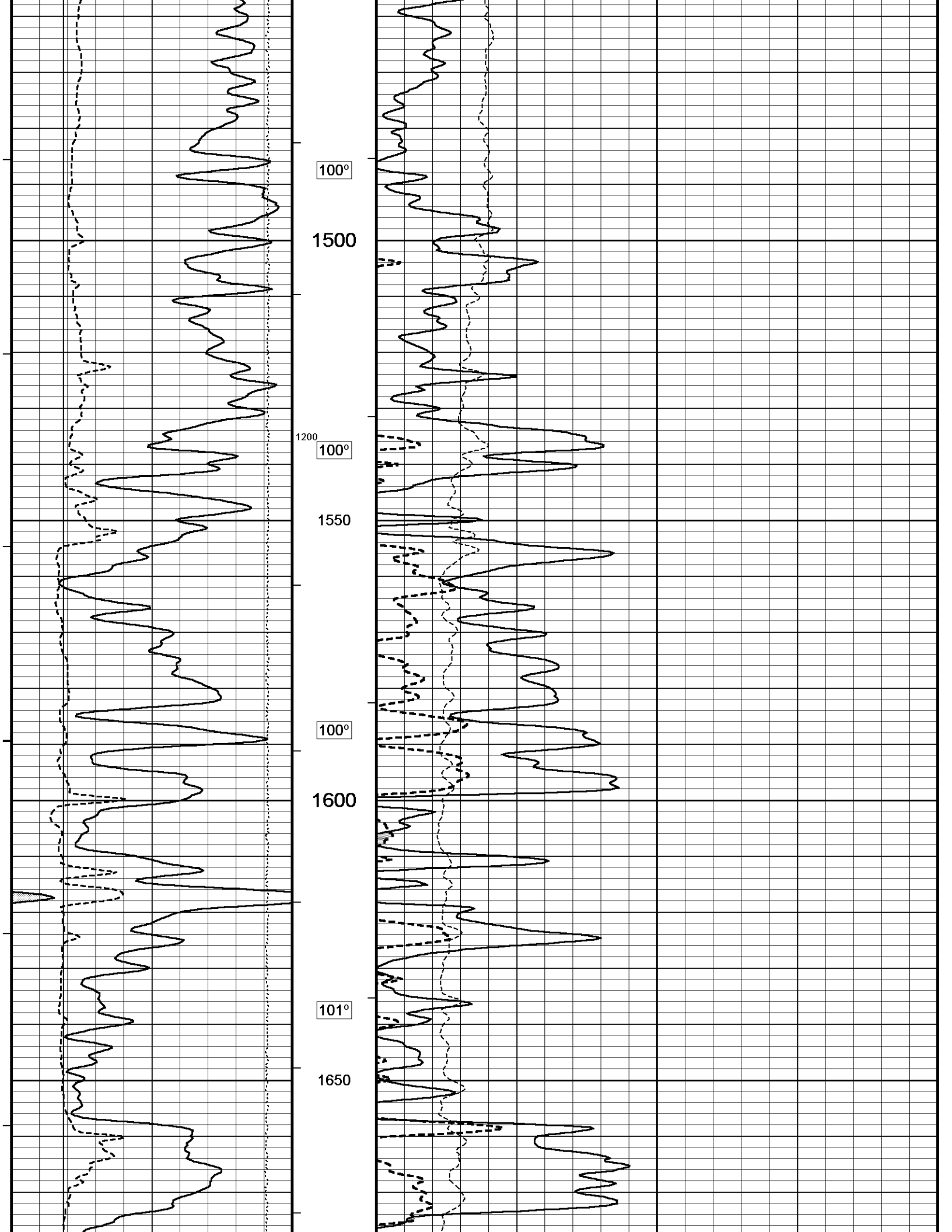
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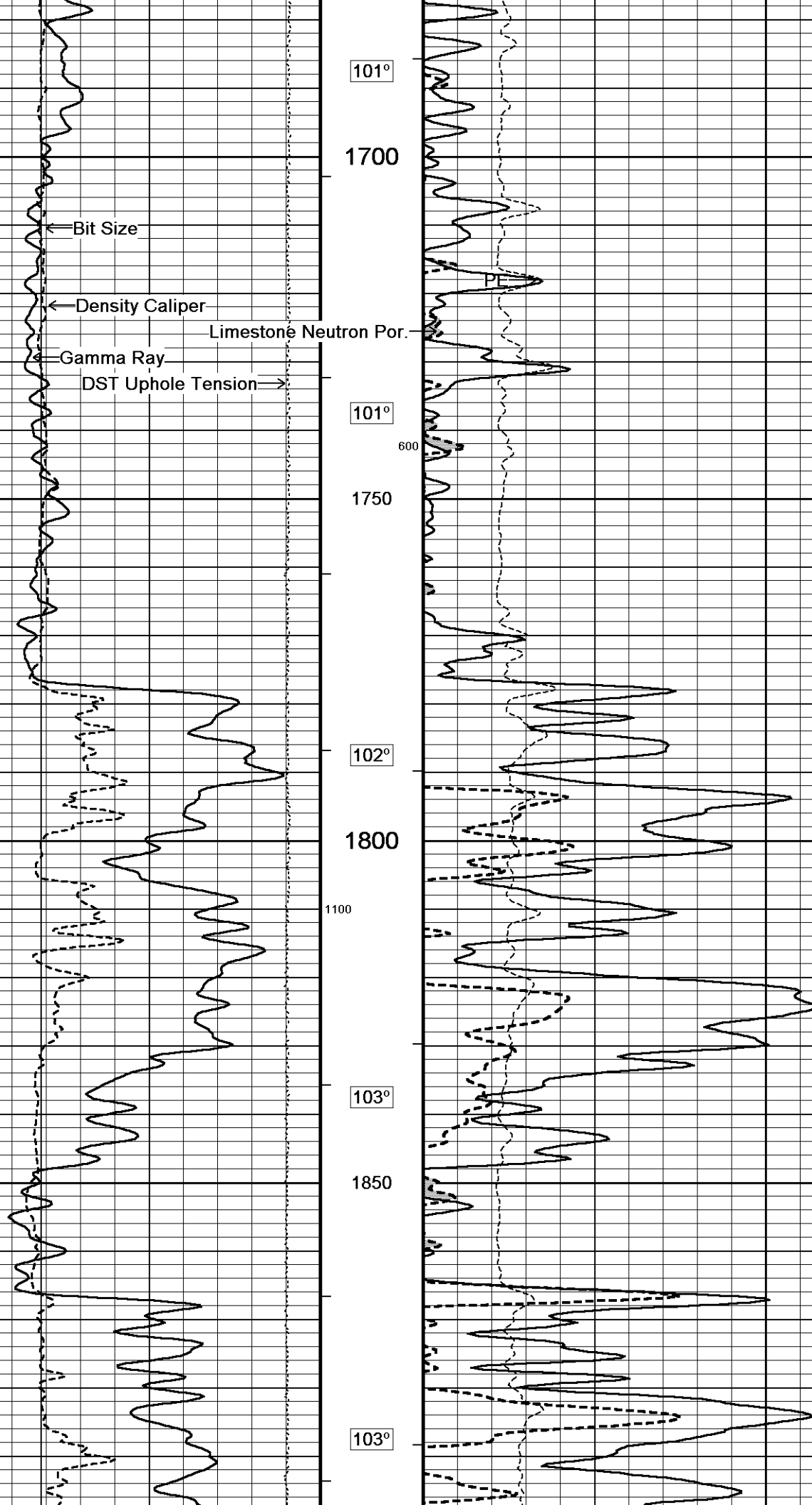


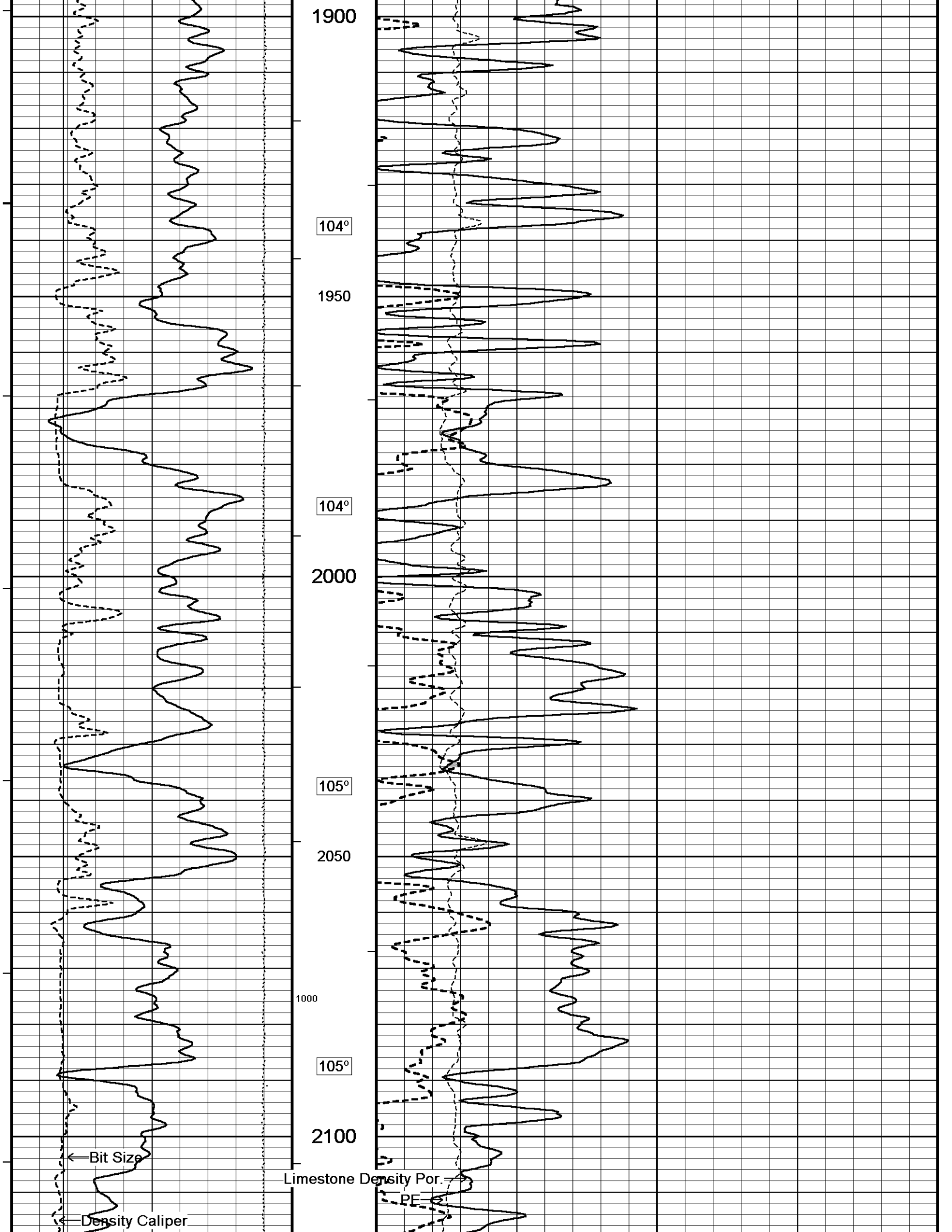


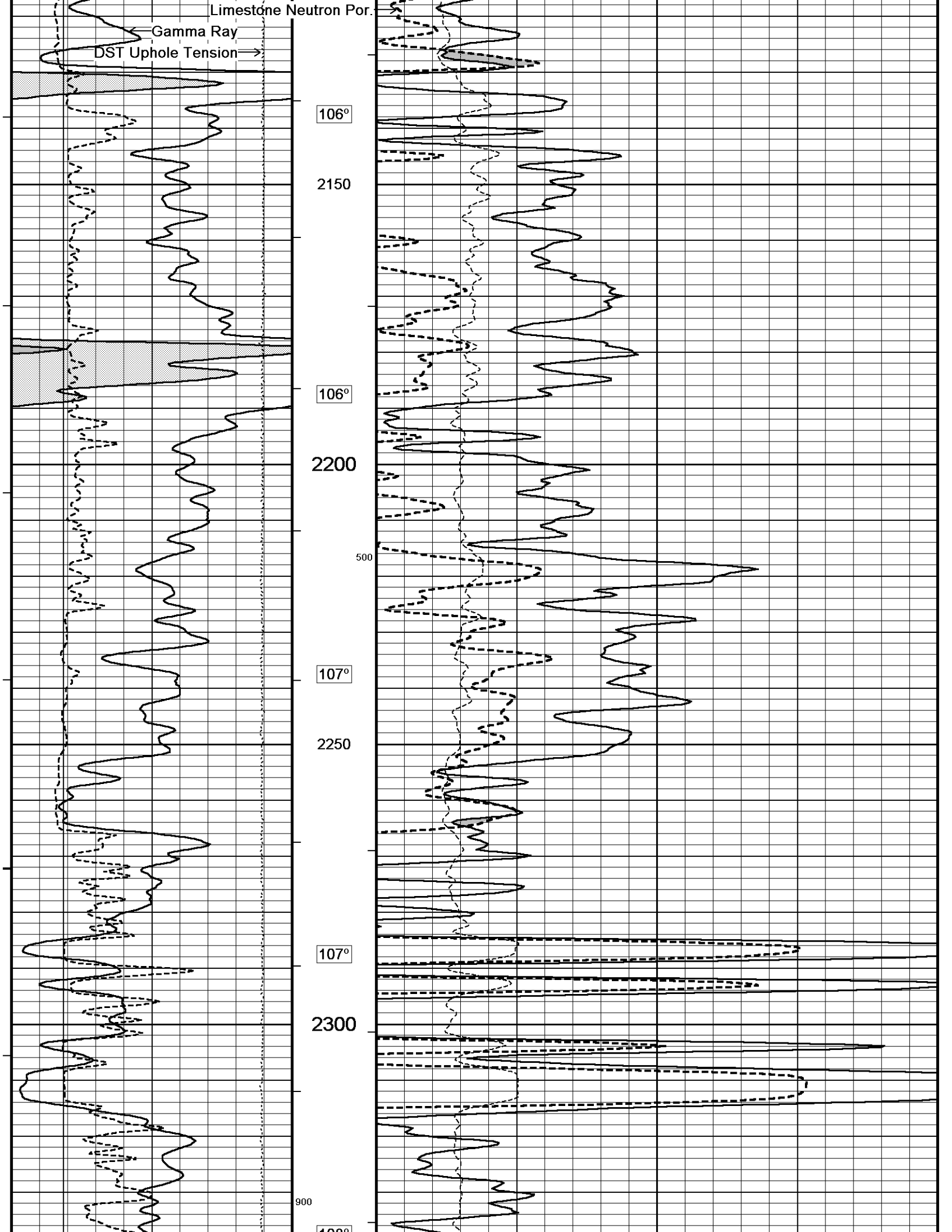


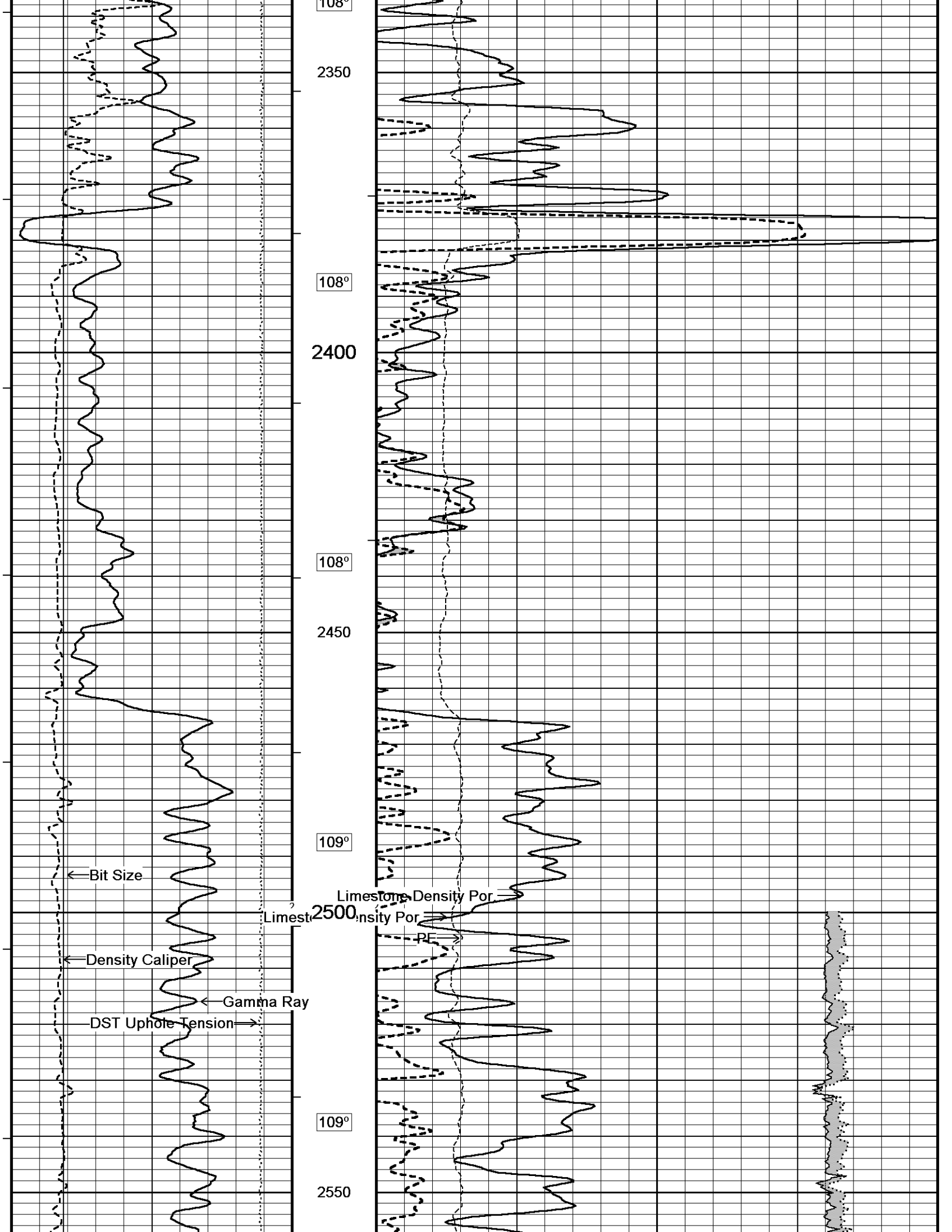


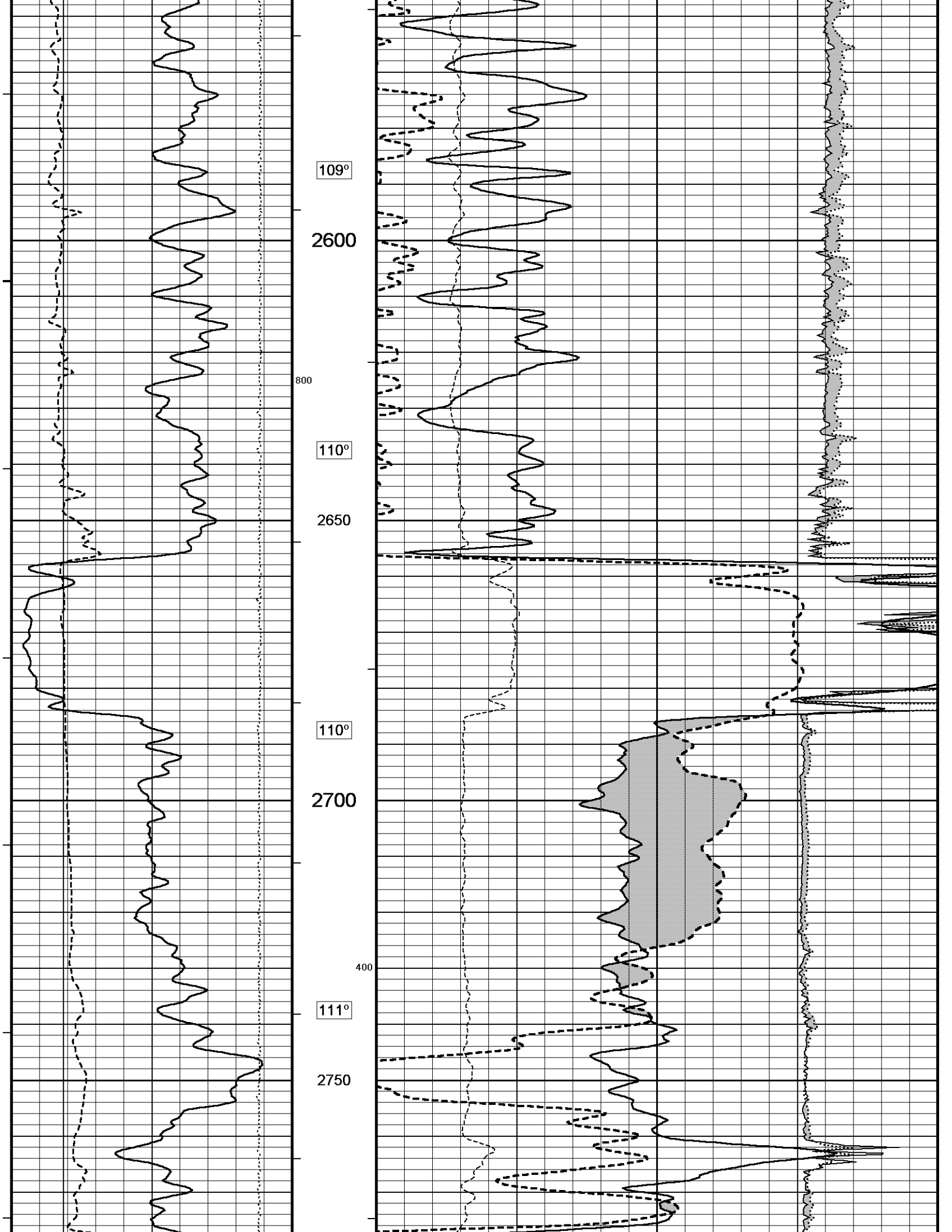


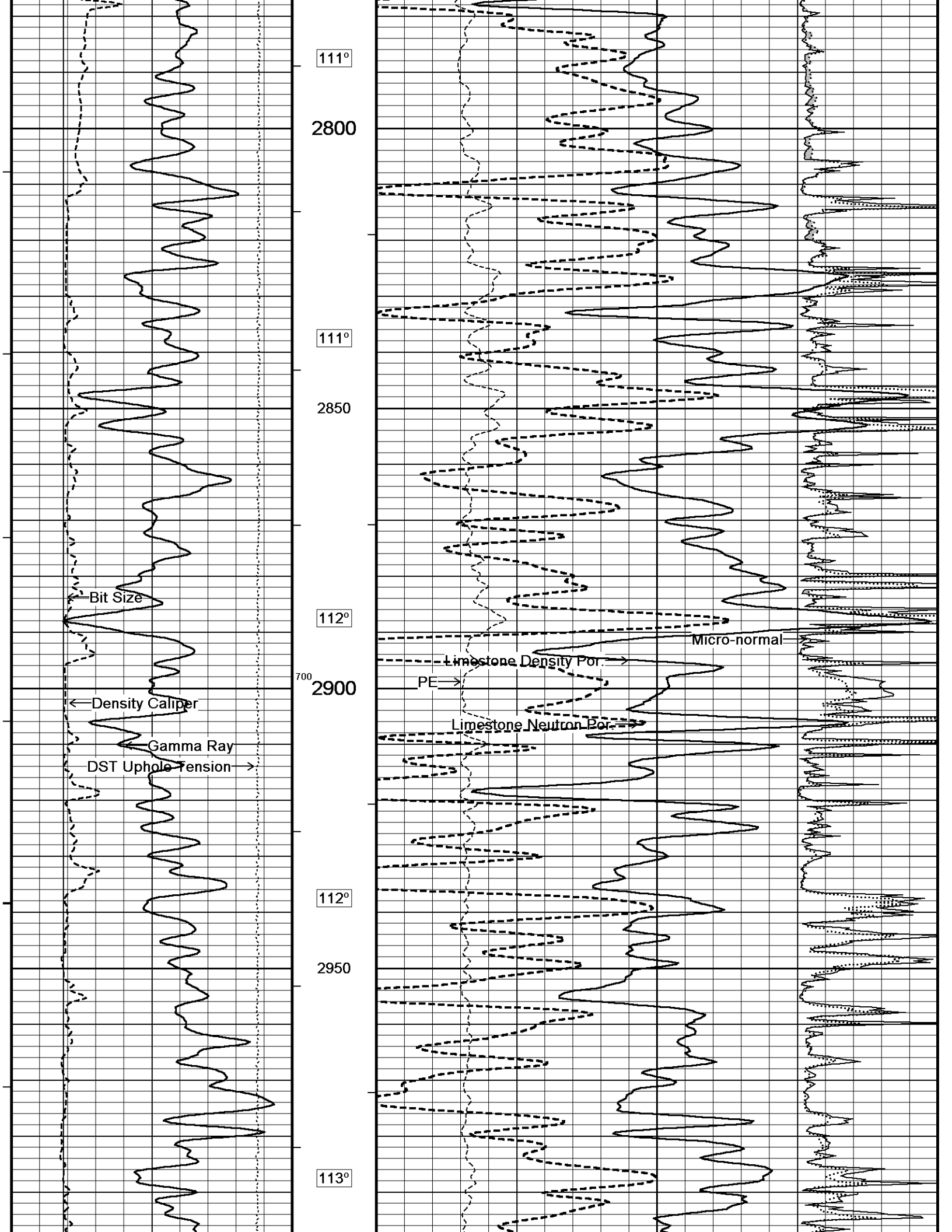


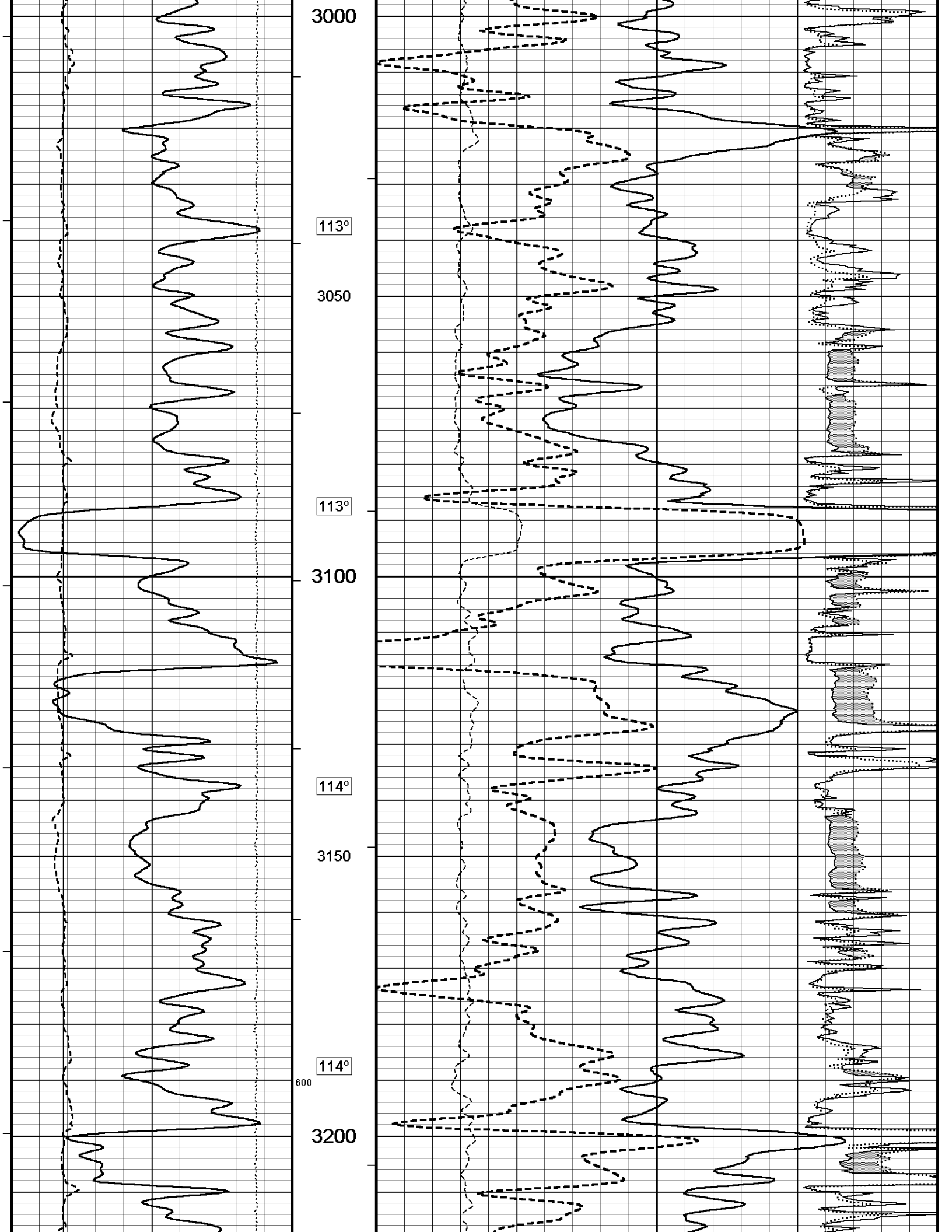


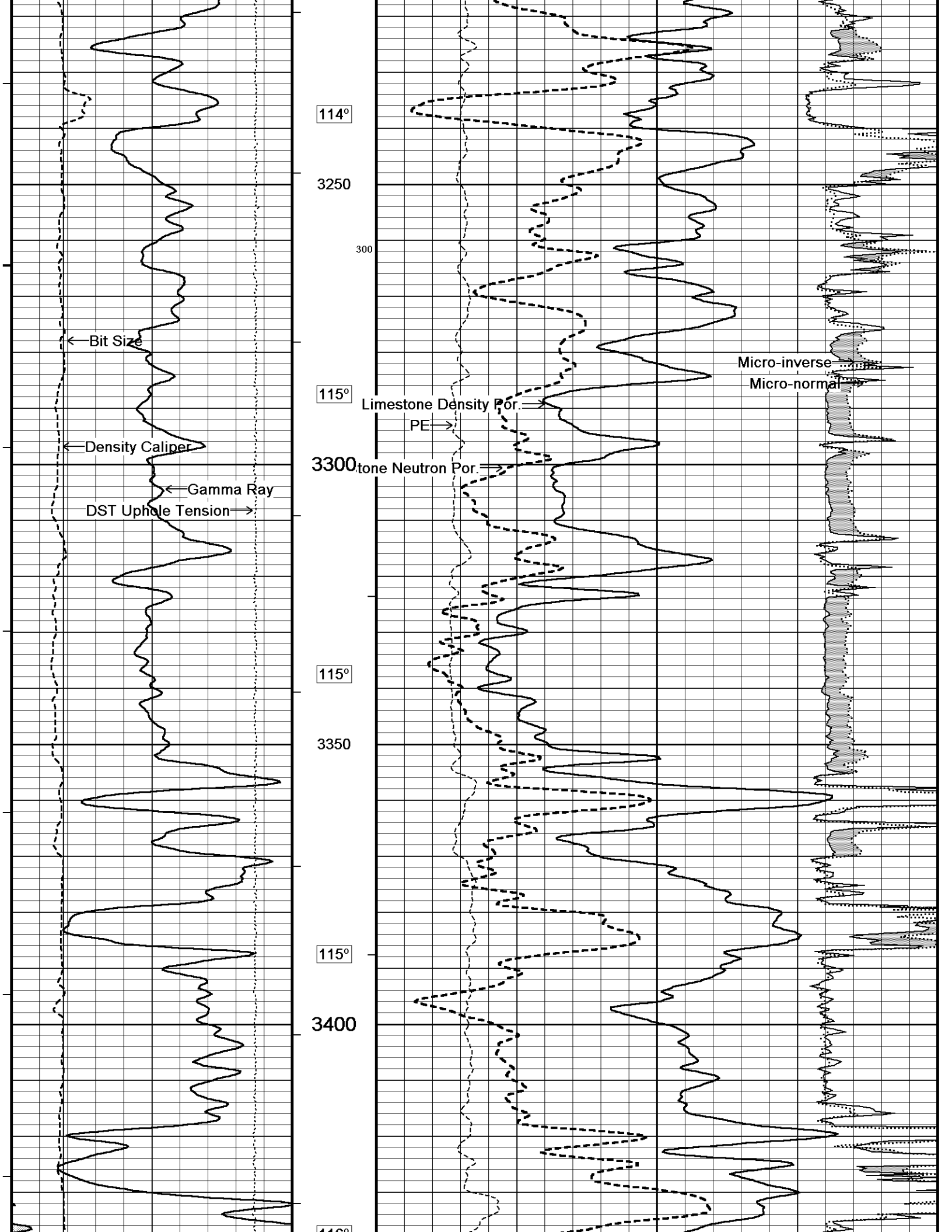


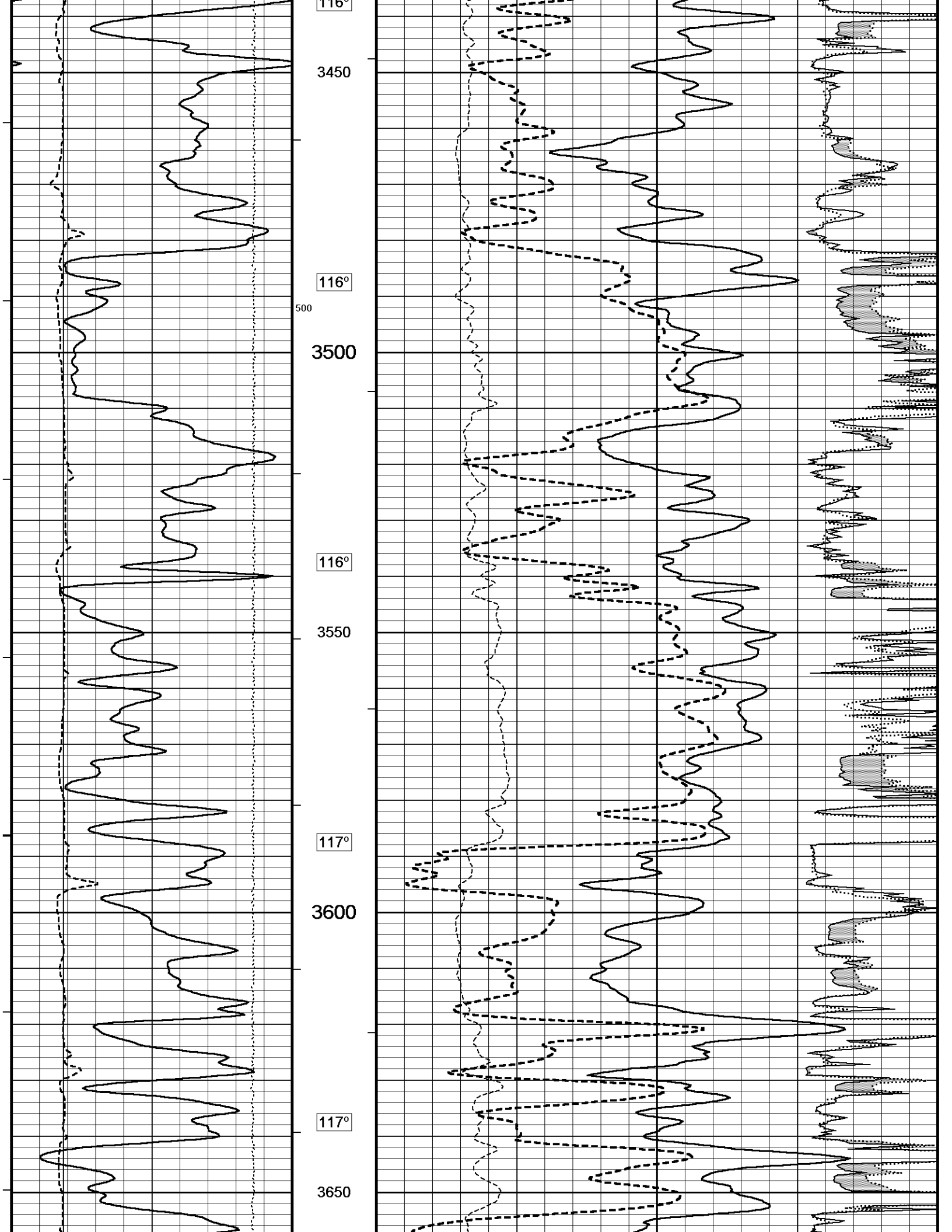


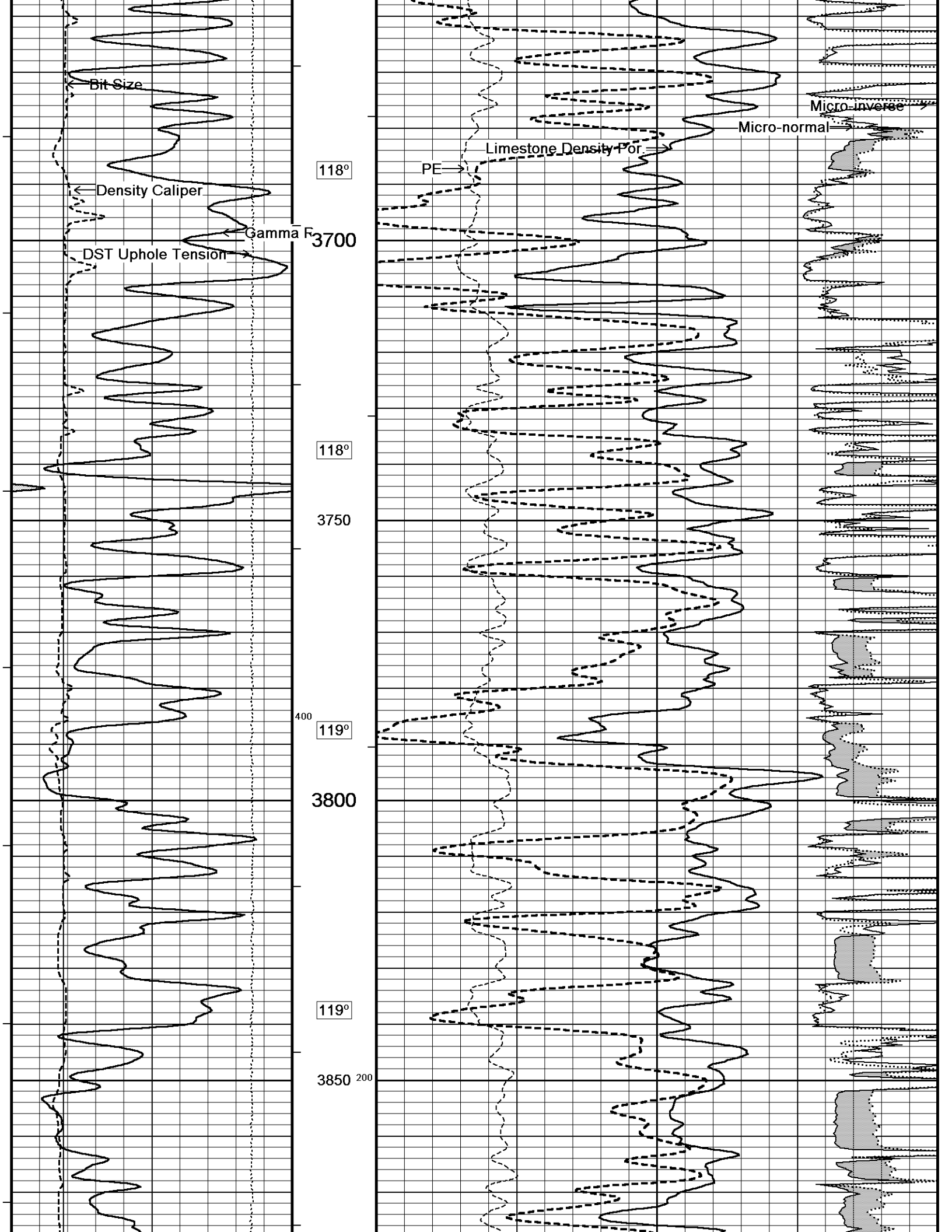


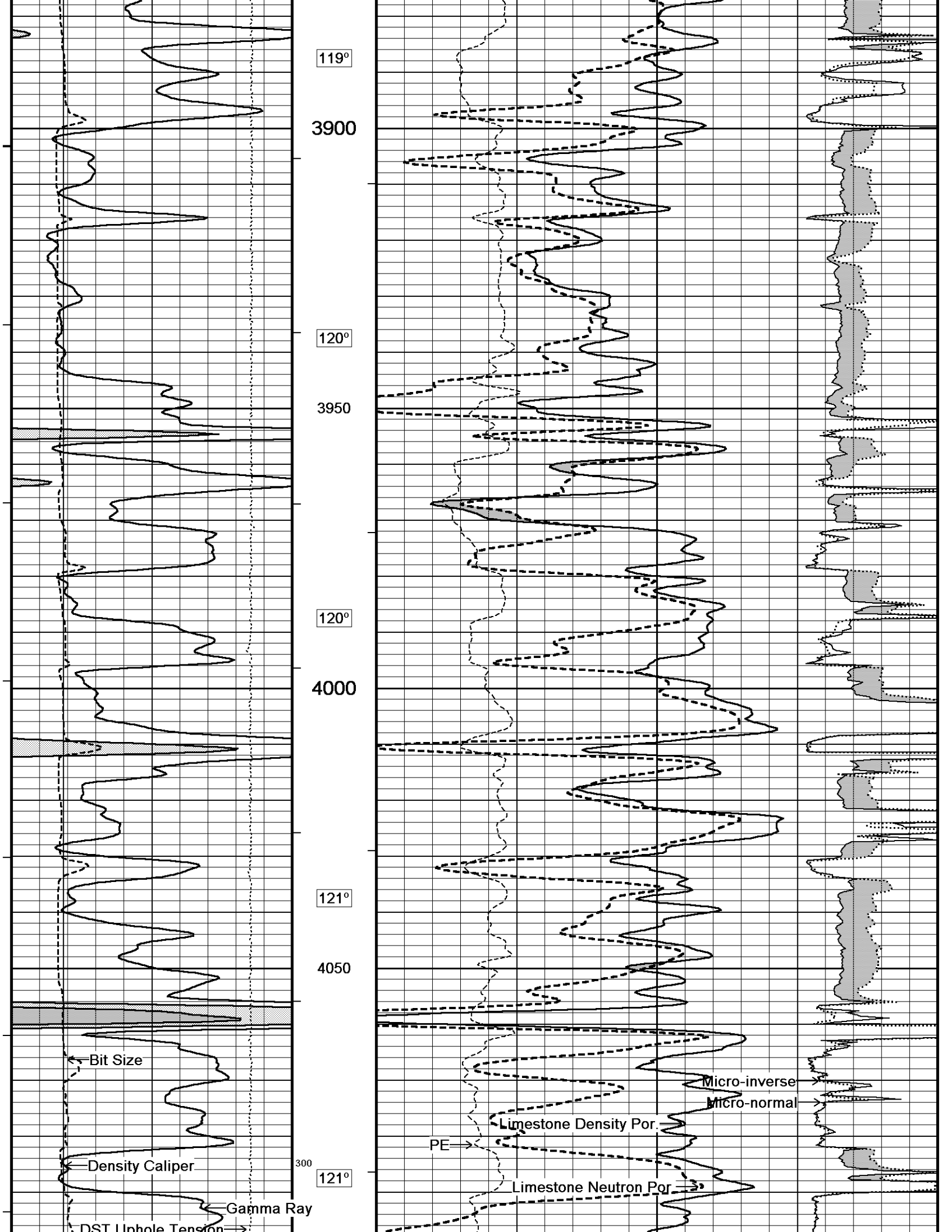


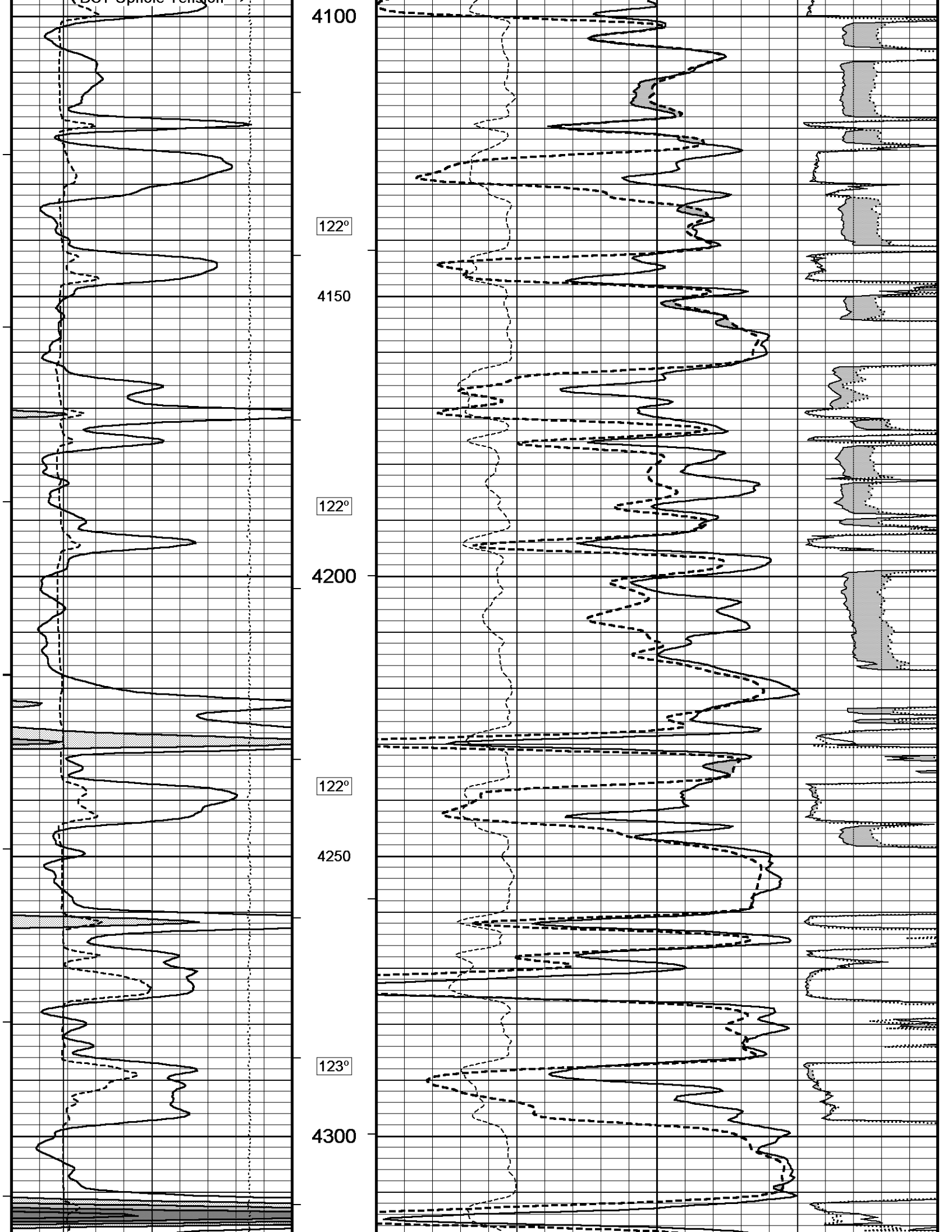


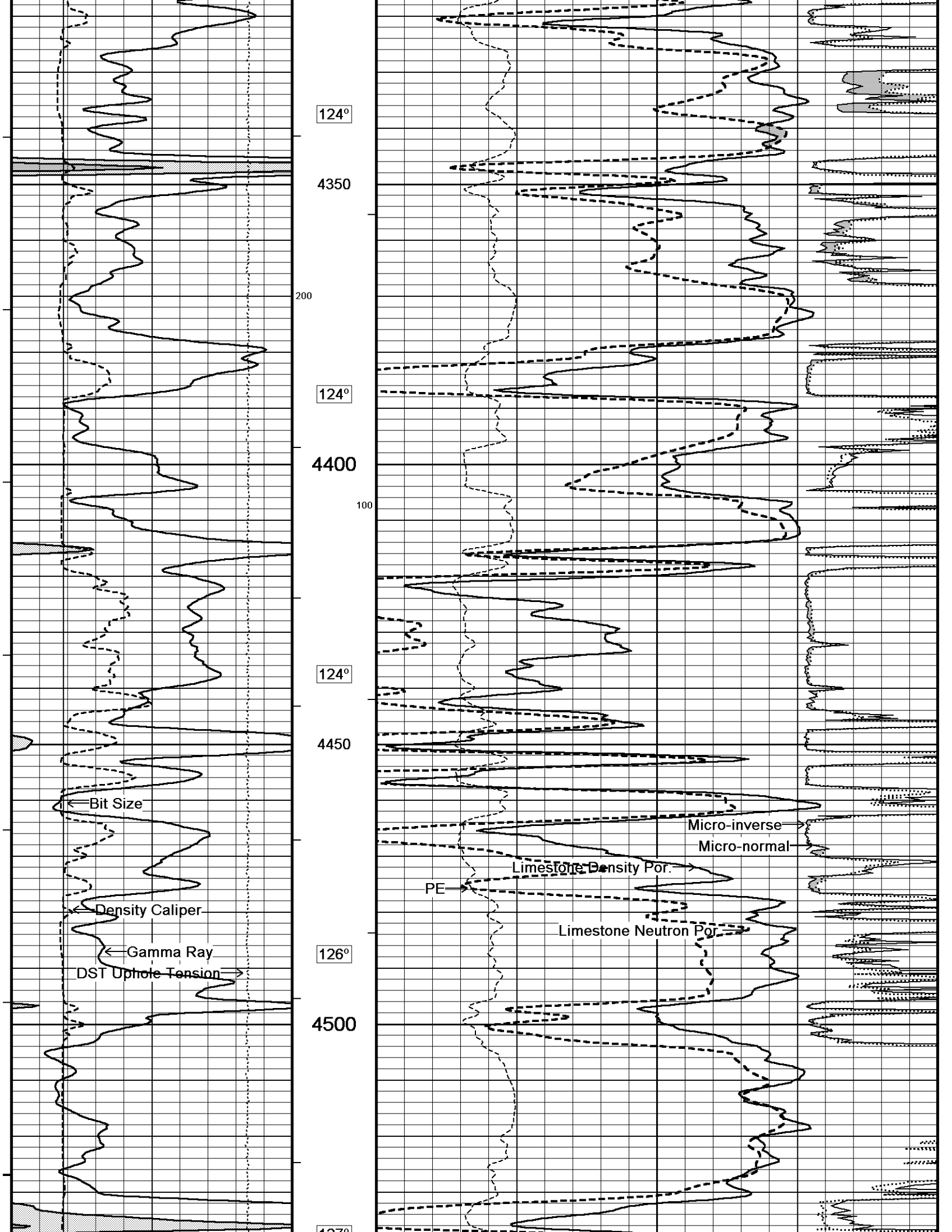


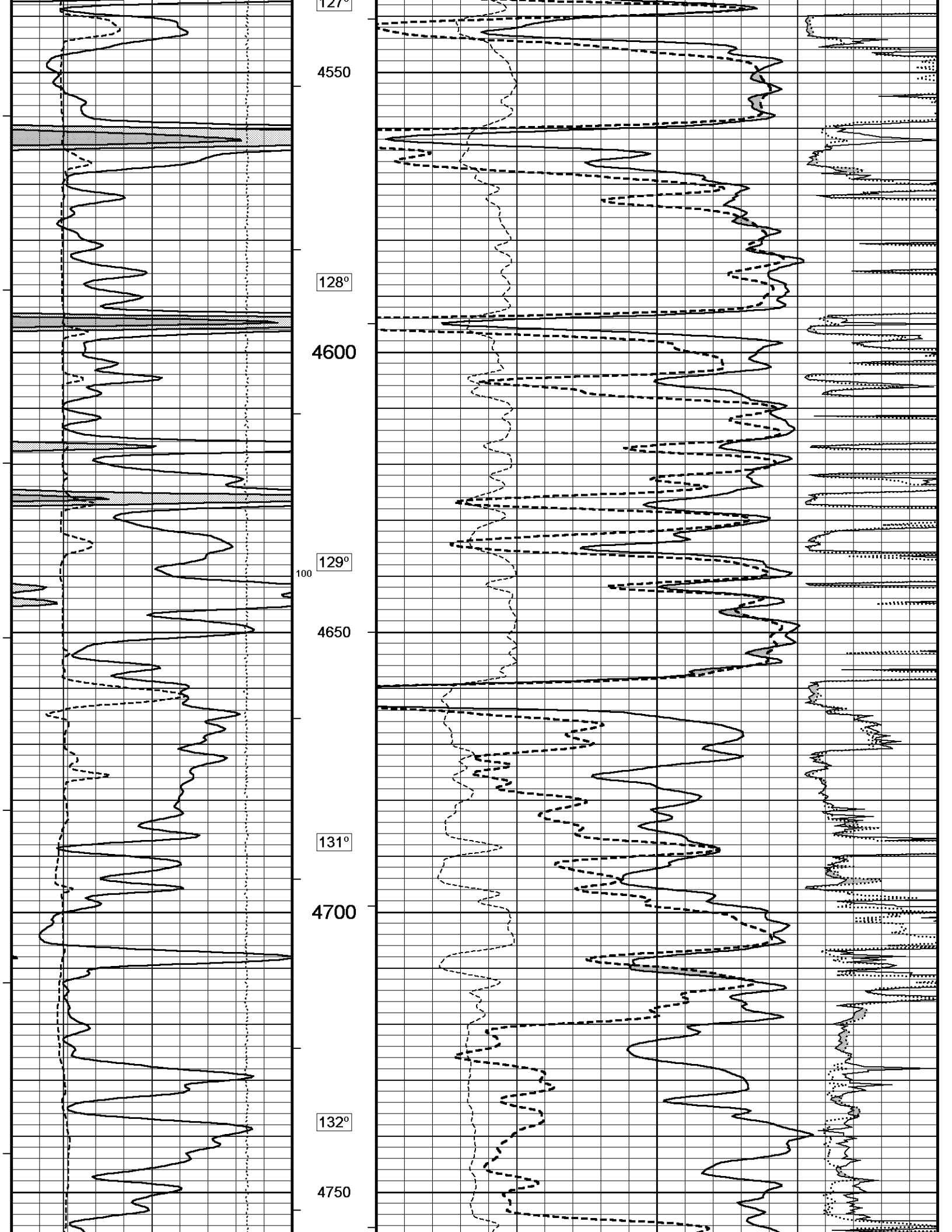


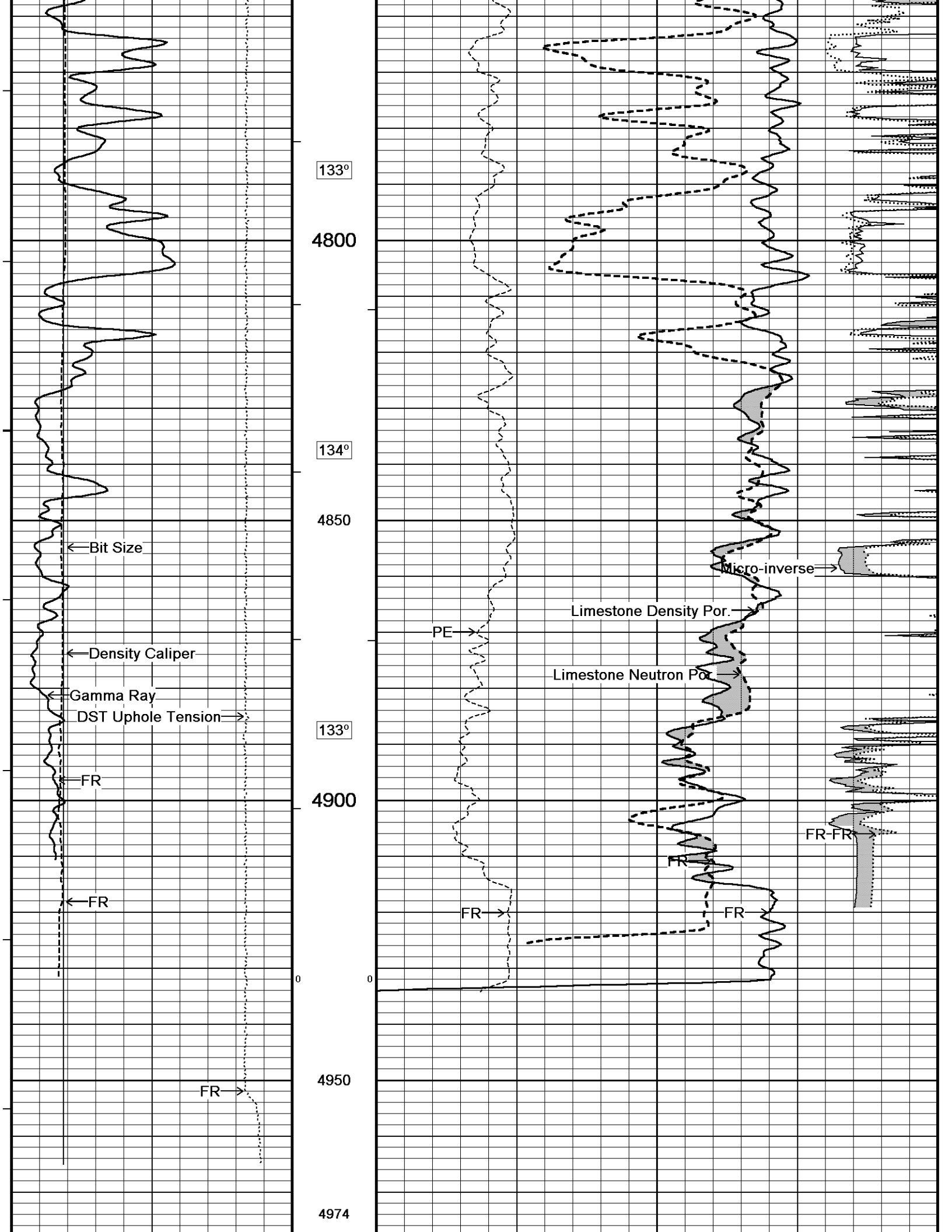


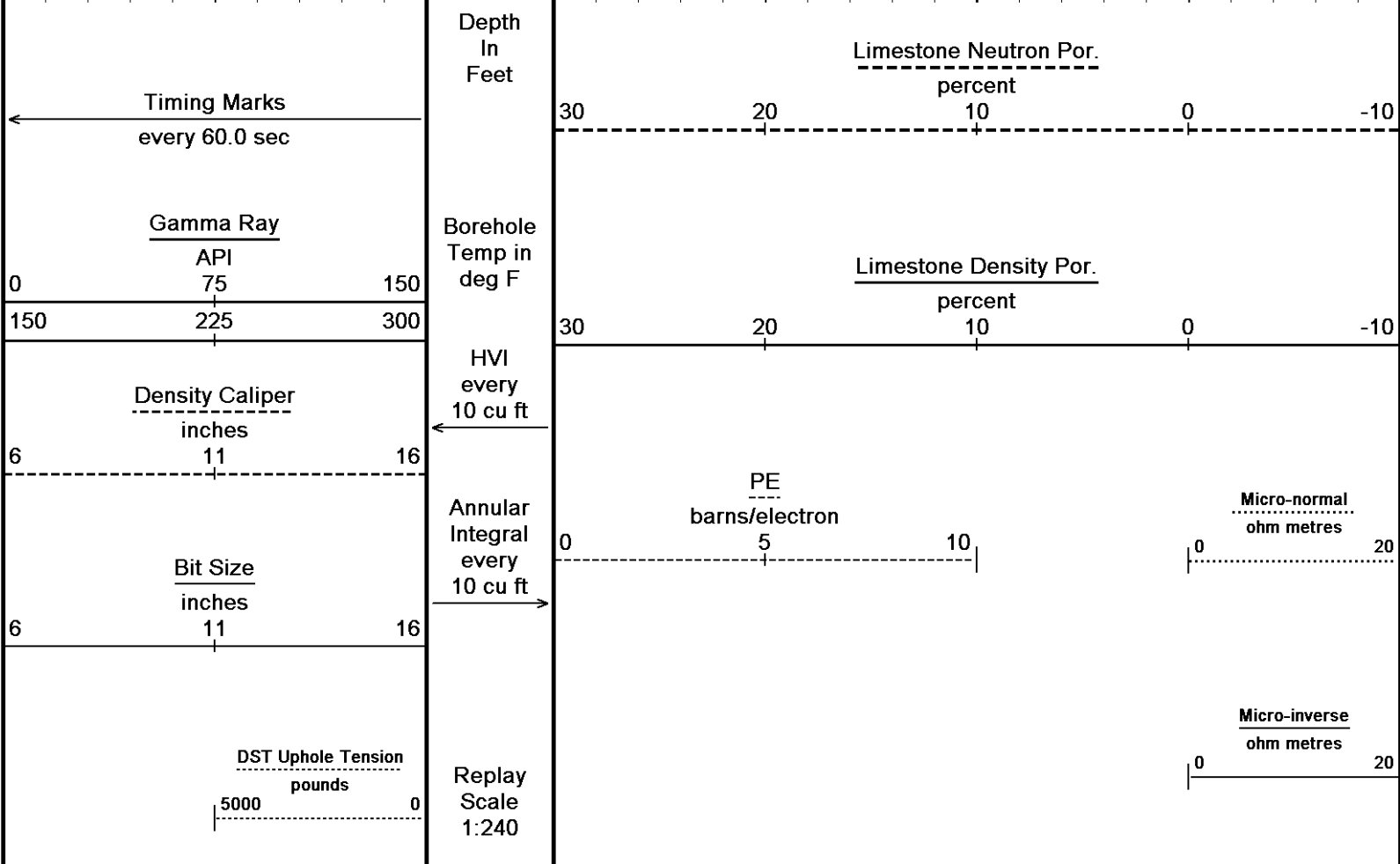










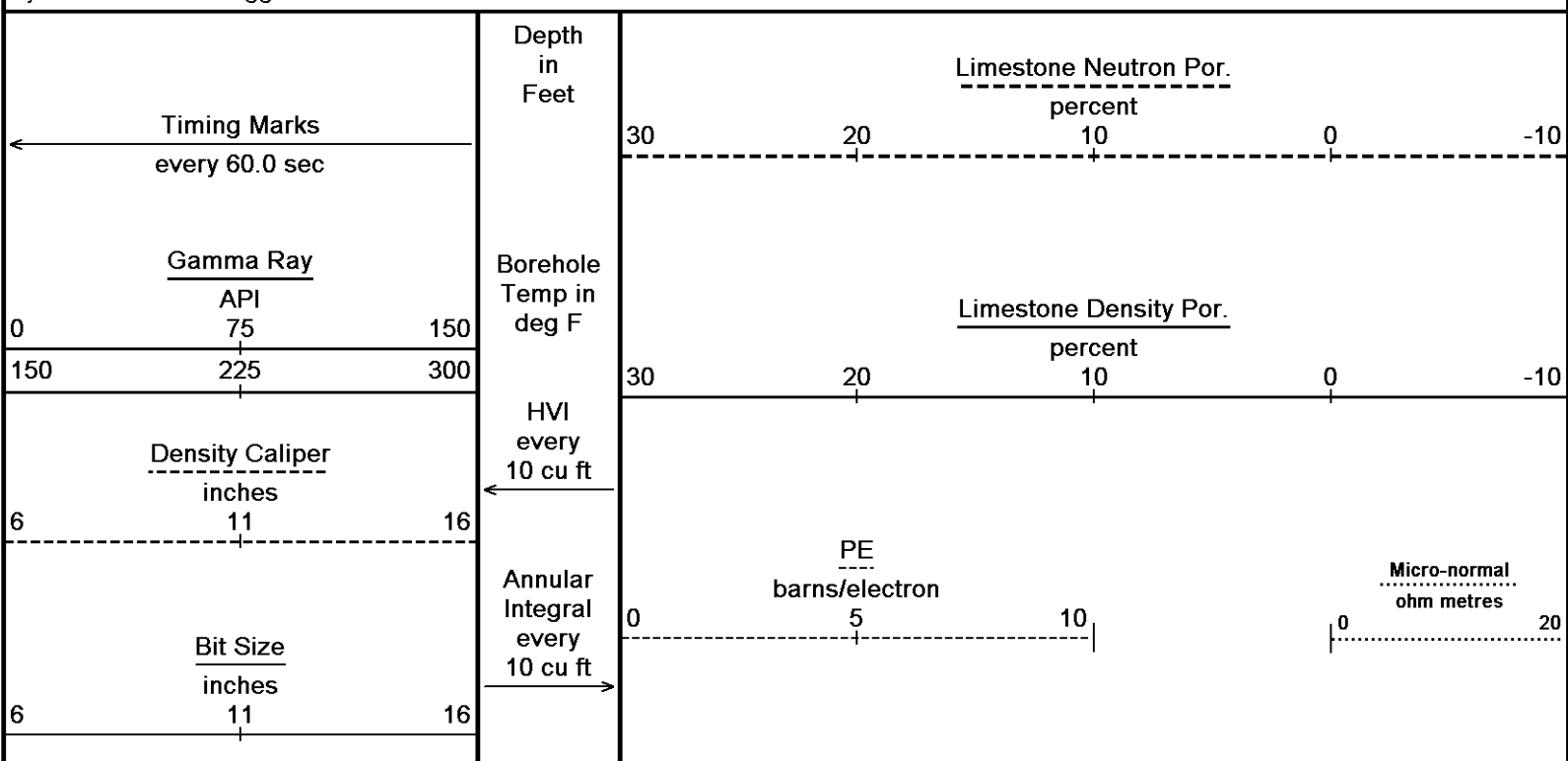


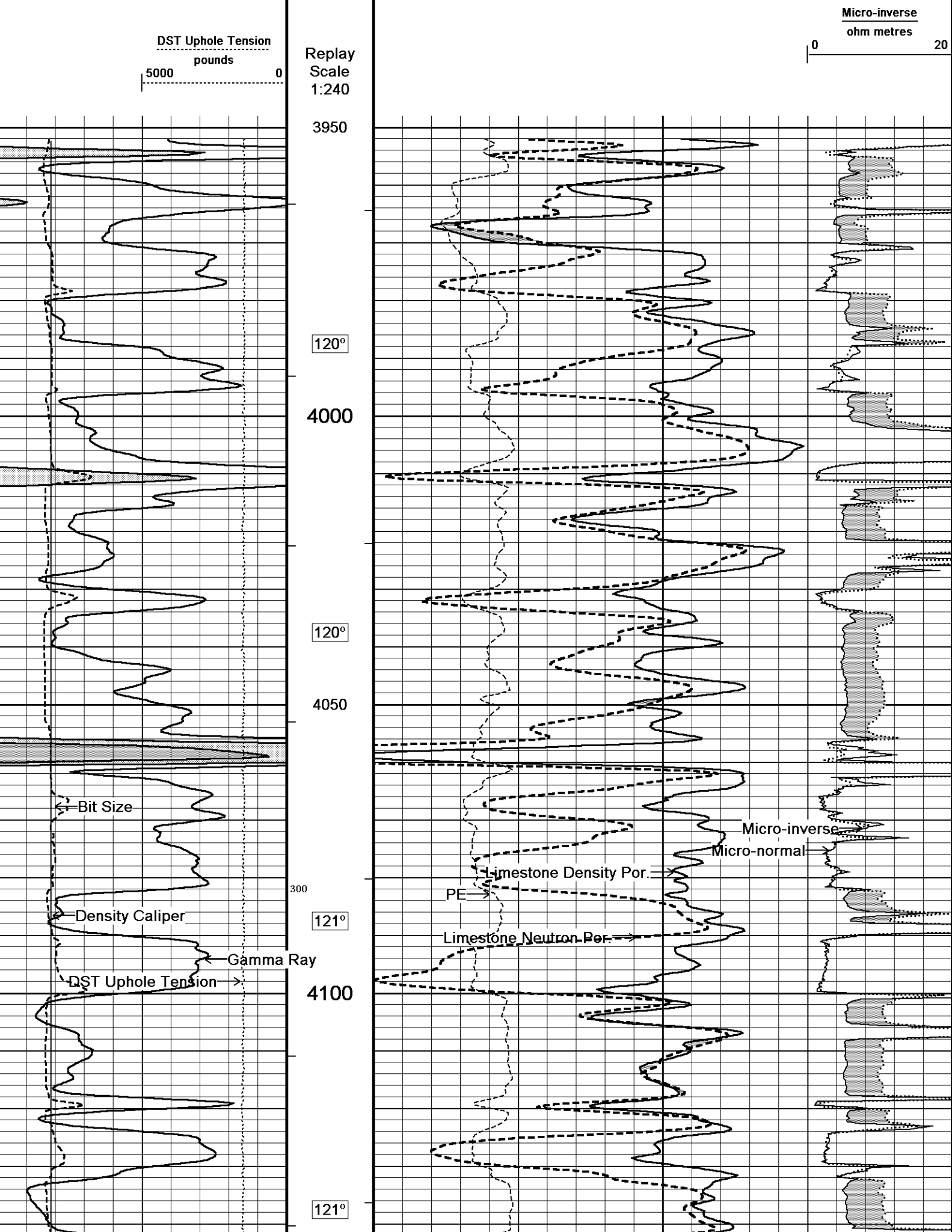
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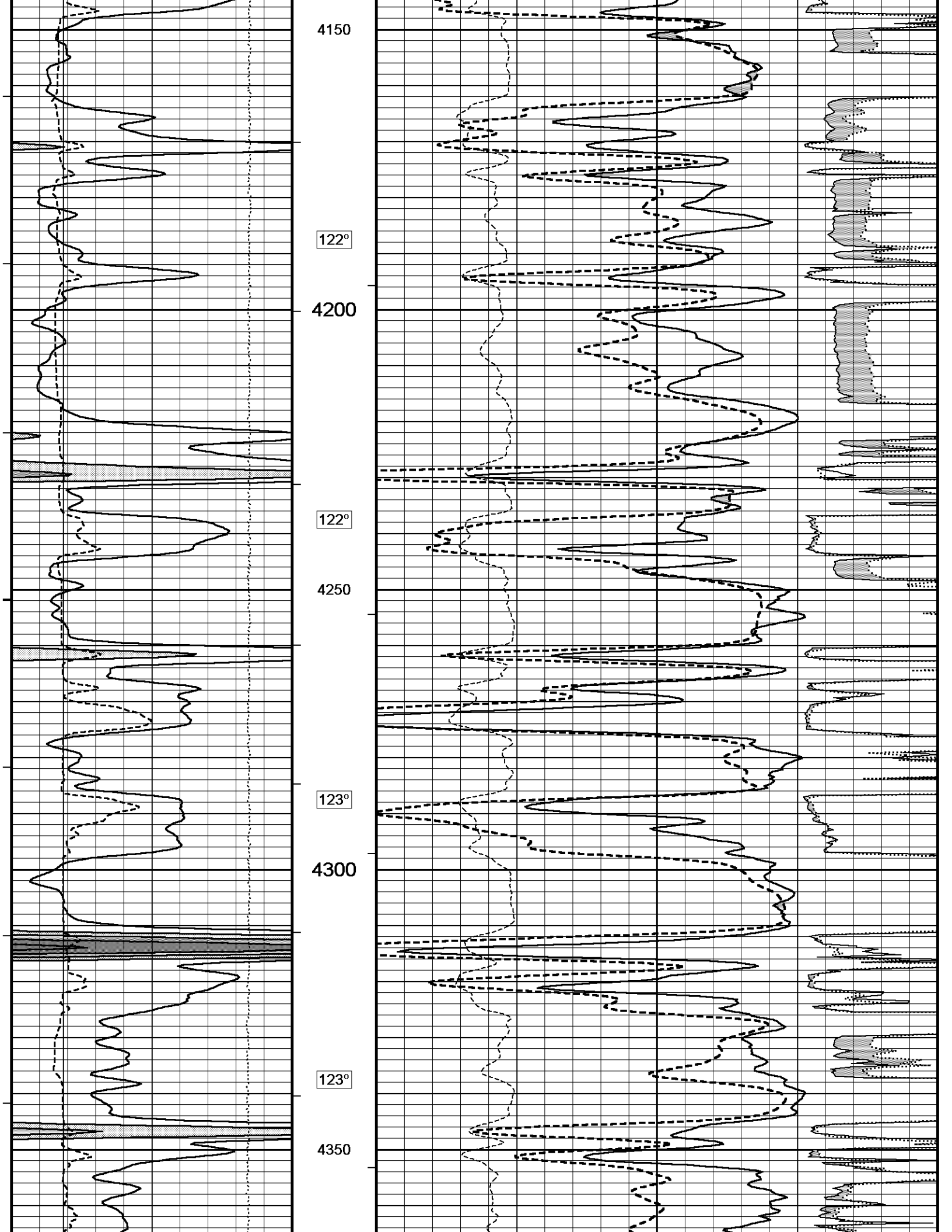
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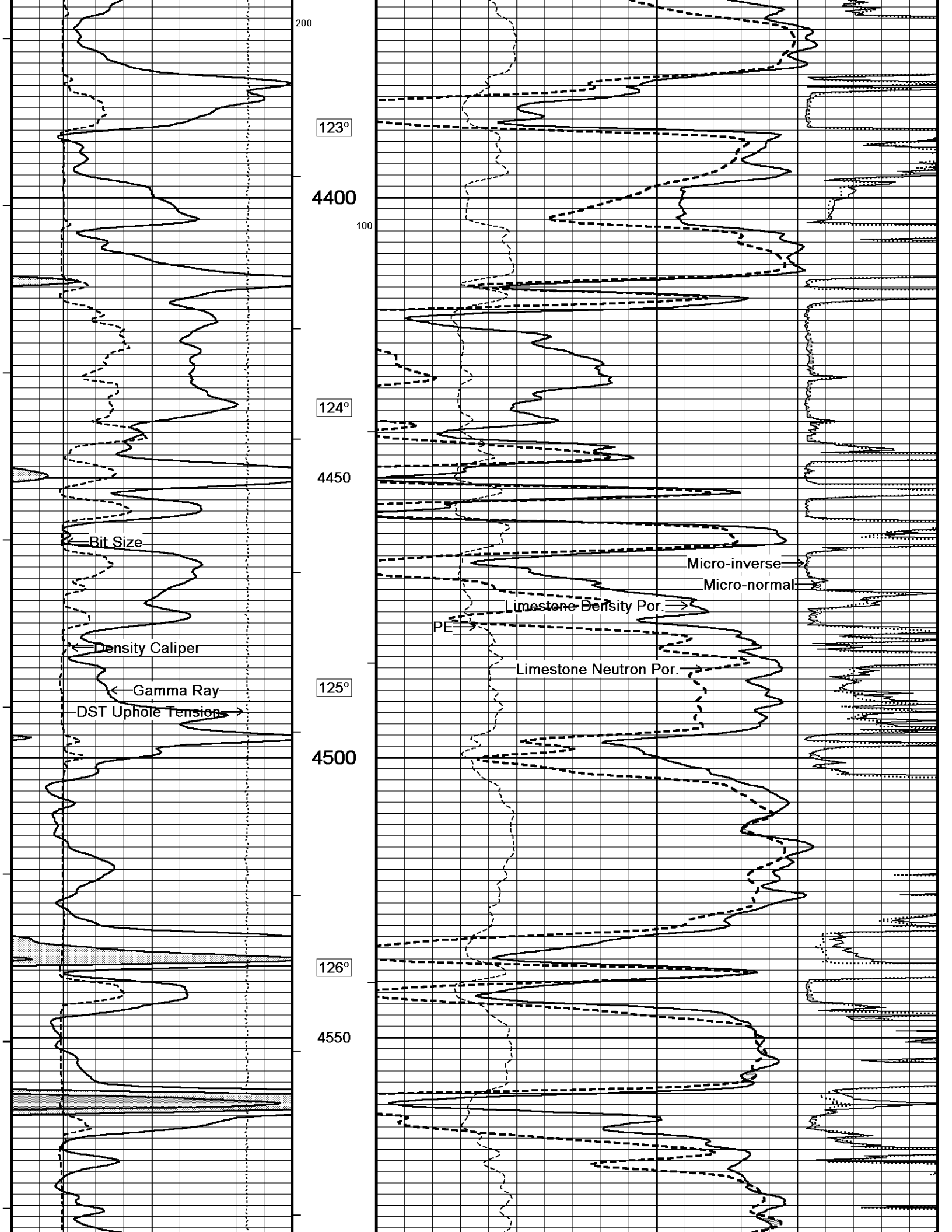
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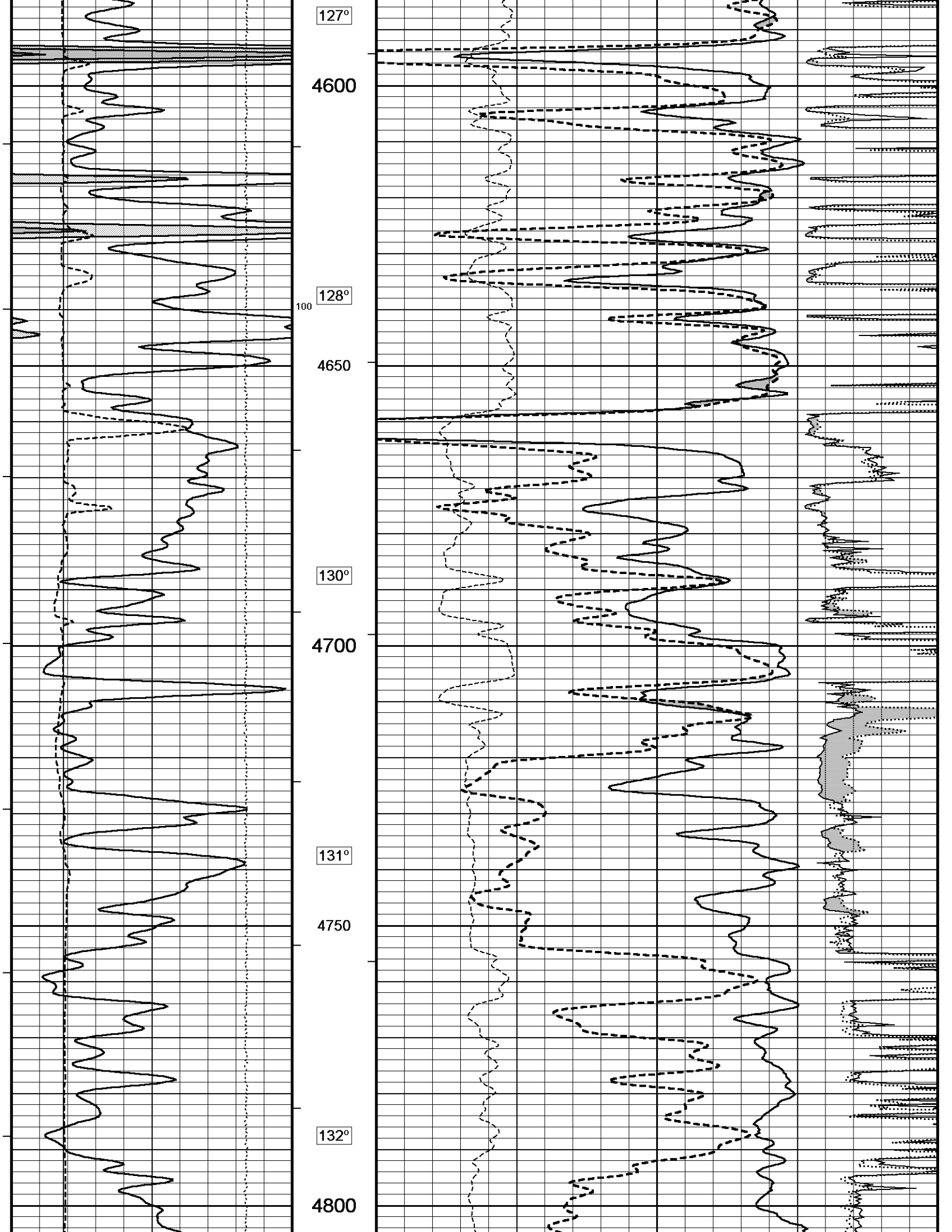
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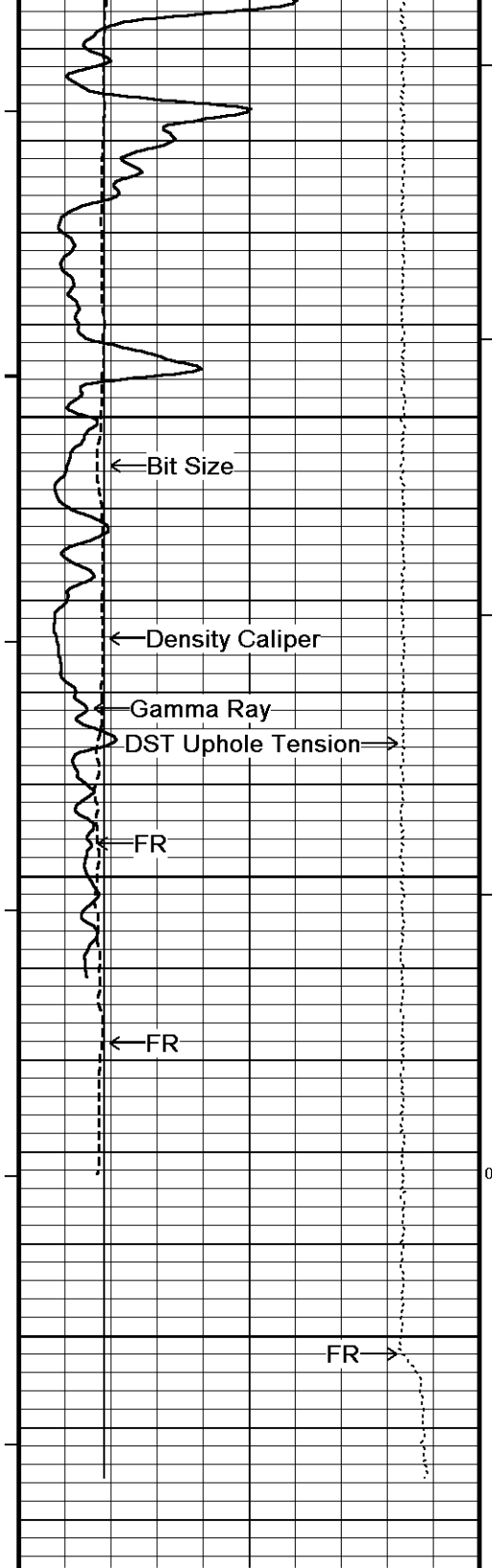












133°

4850

133°

4900

0

4950

4972

Depth
in
Feet

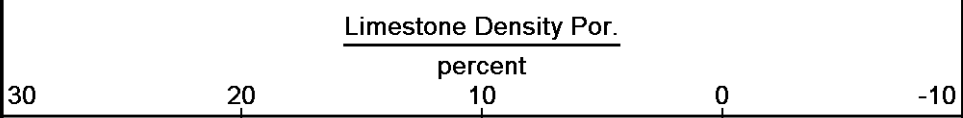
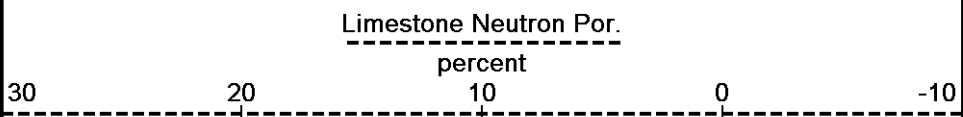
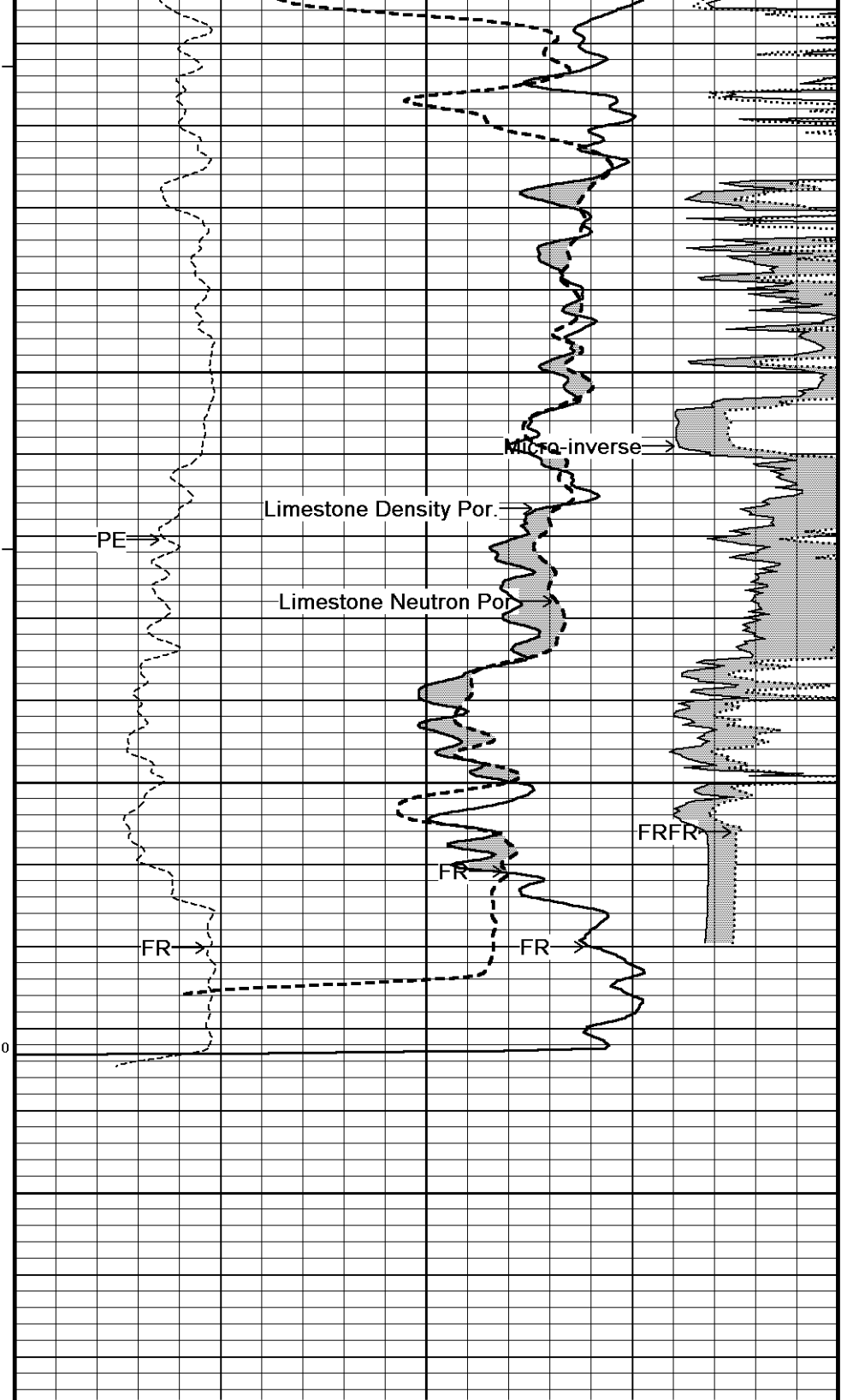
Timing Marks
every 60.0 sec

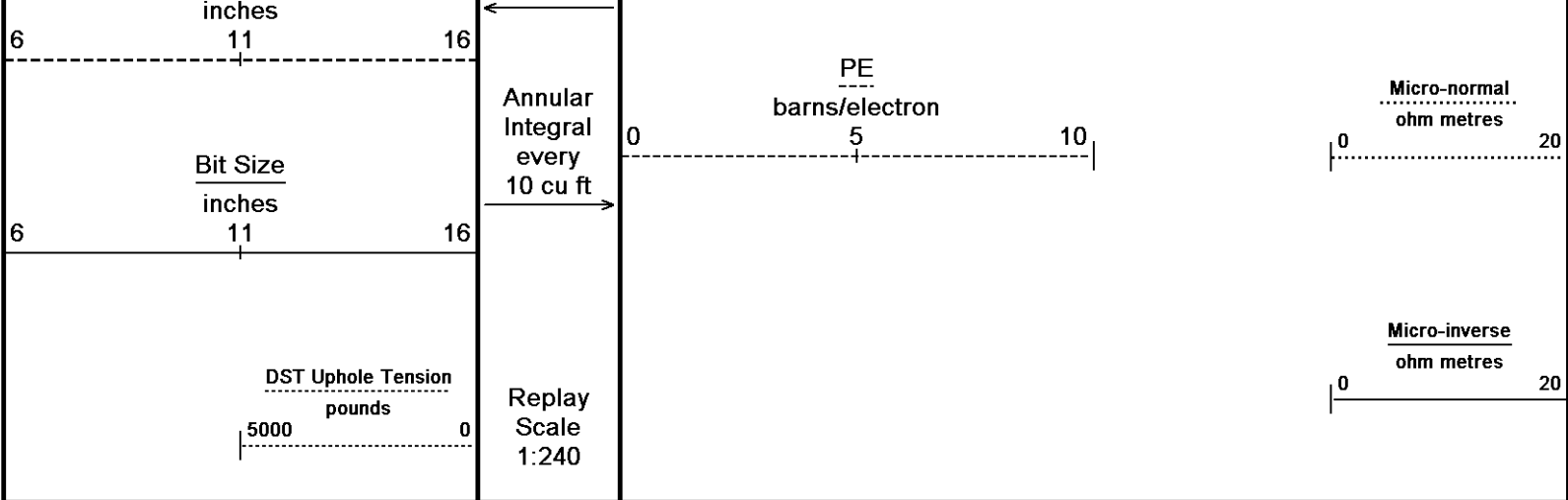
Gamma Ray
API
0 75 150
150 225 300

Density Caliper

Borehole
Temp in
deg F

HVI
every
10 cu ft



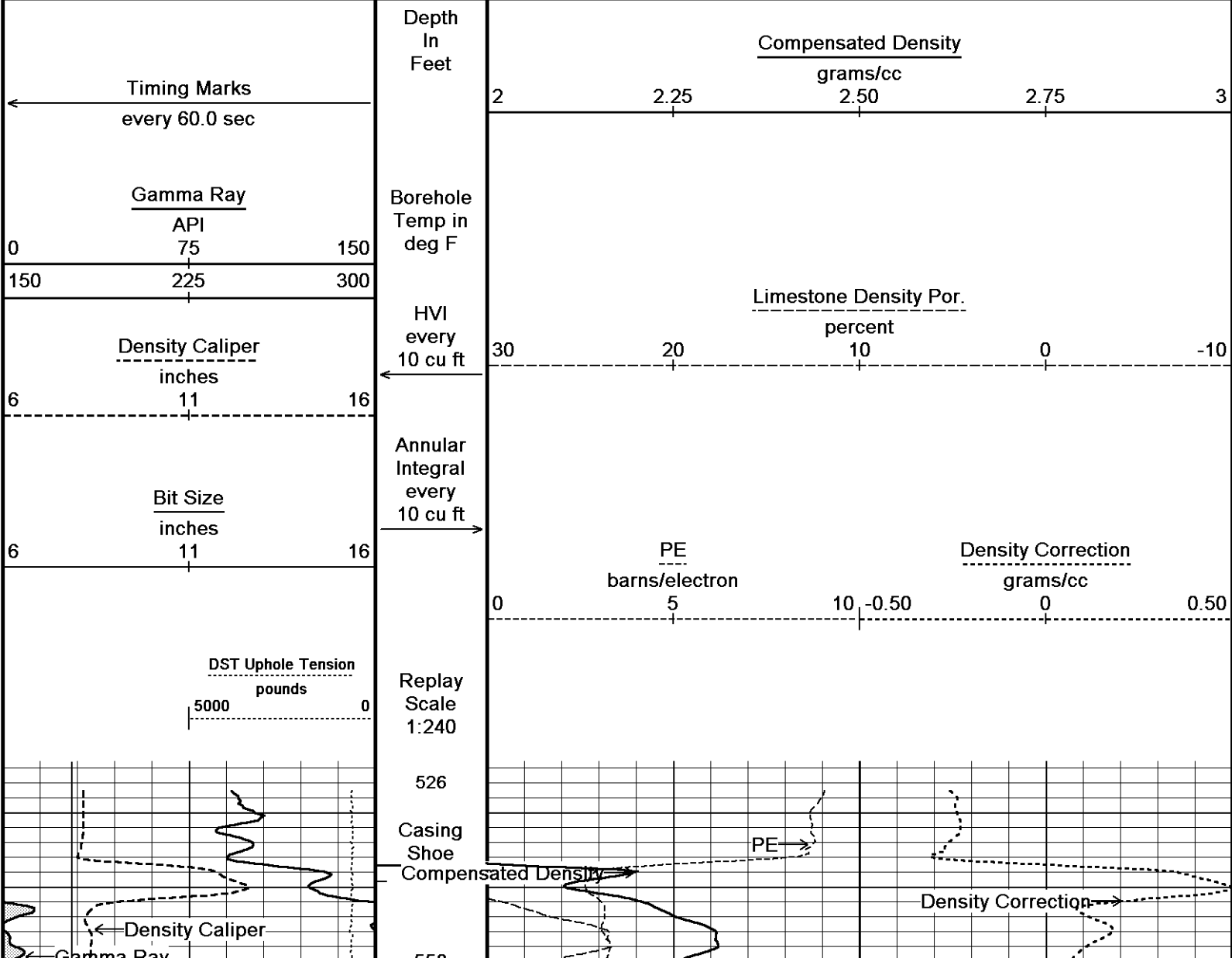


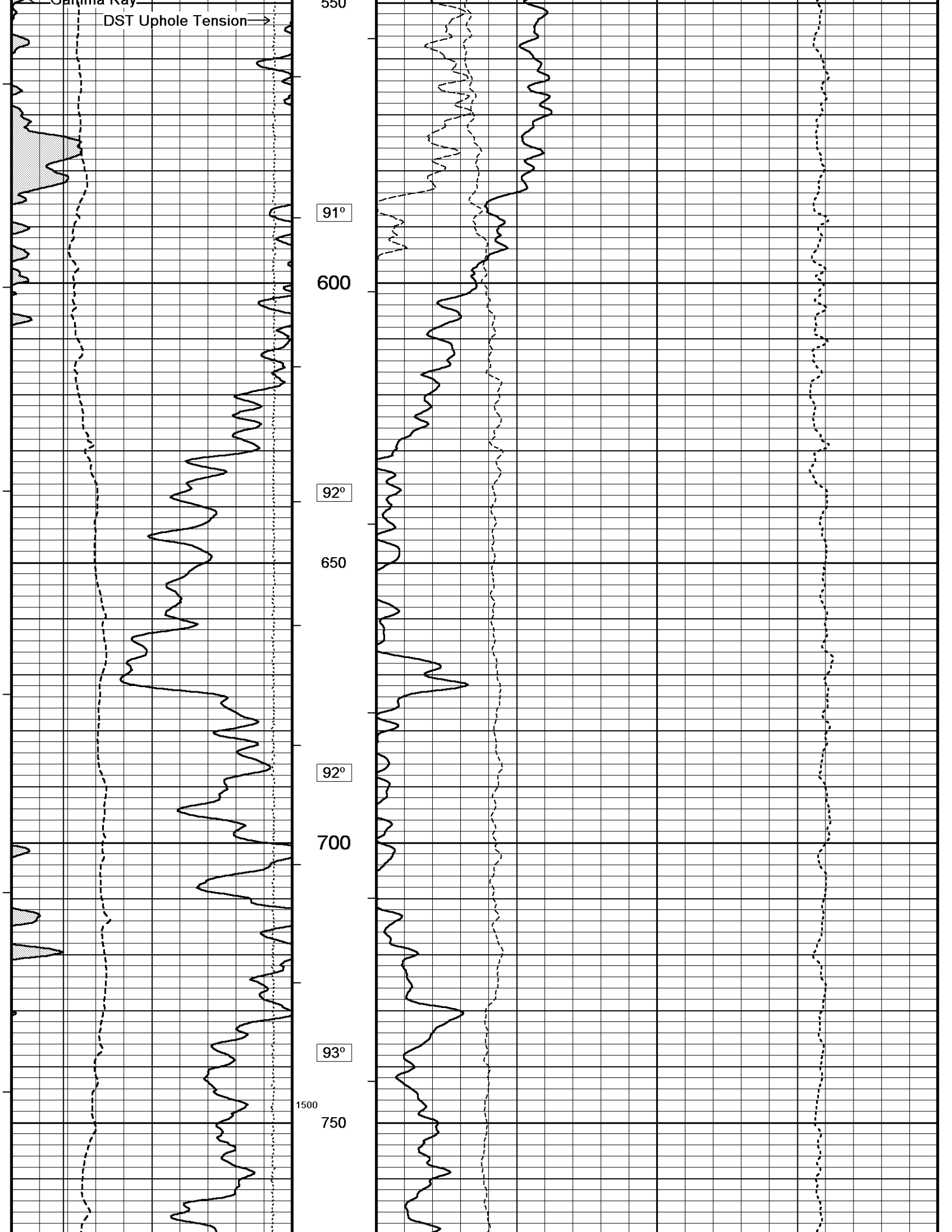
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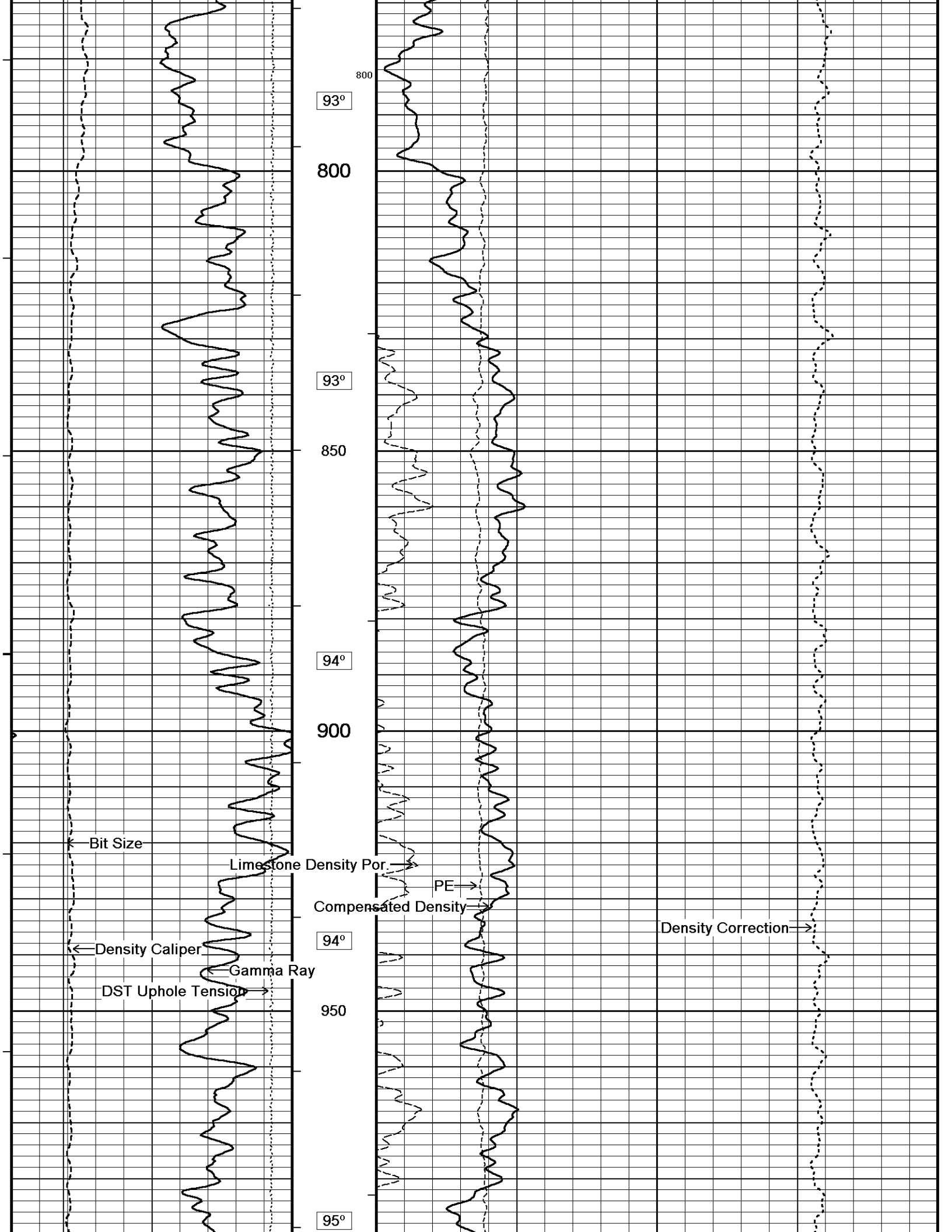
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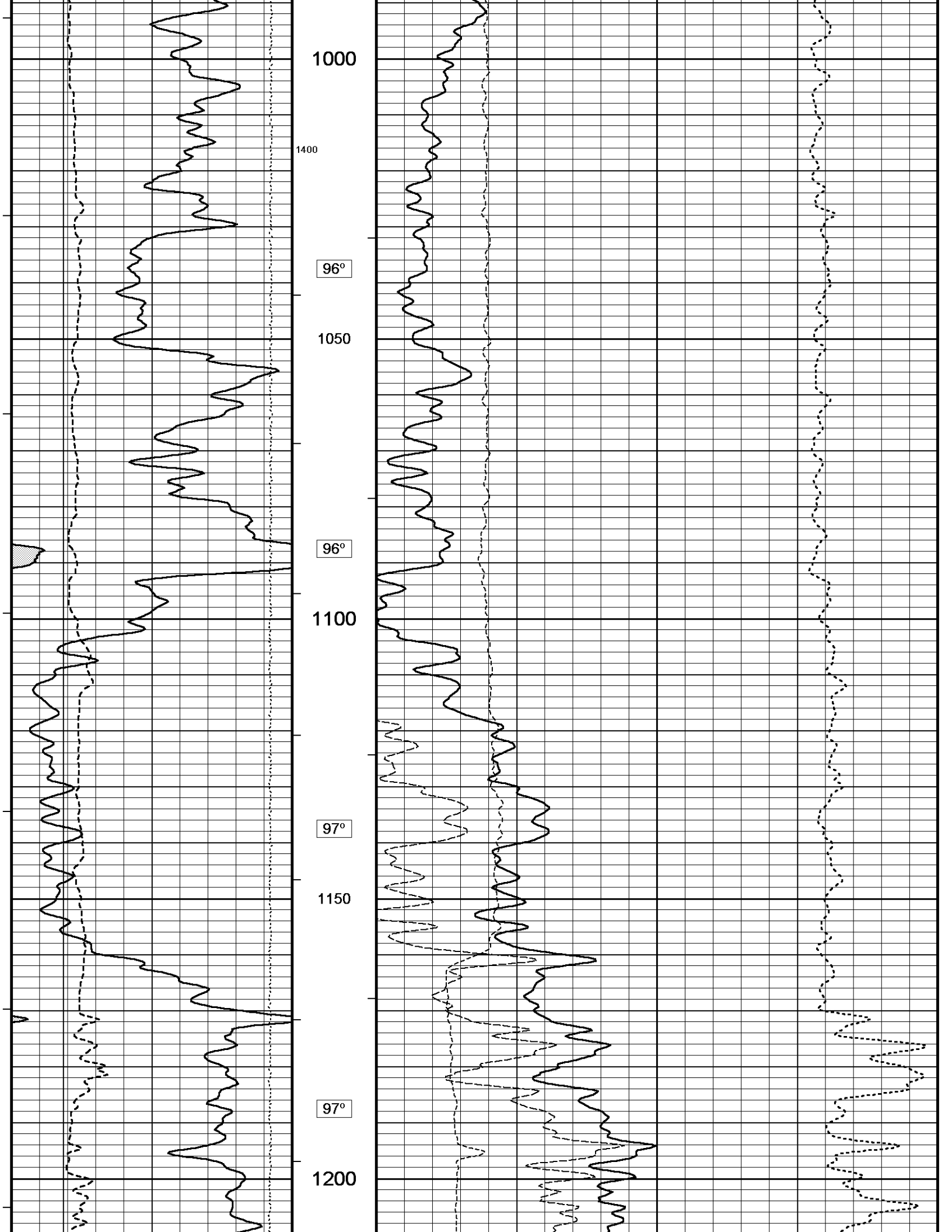
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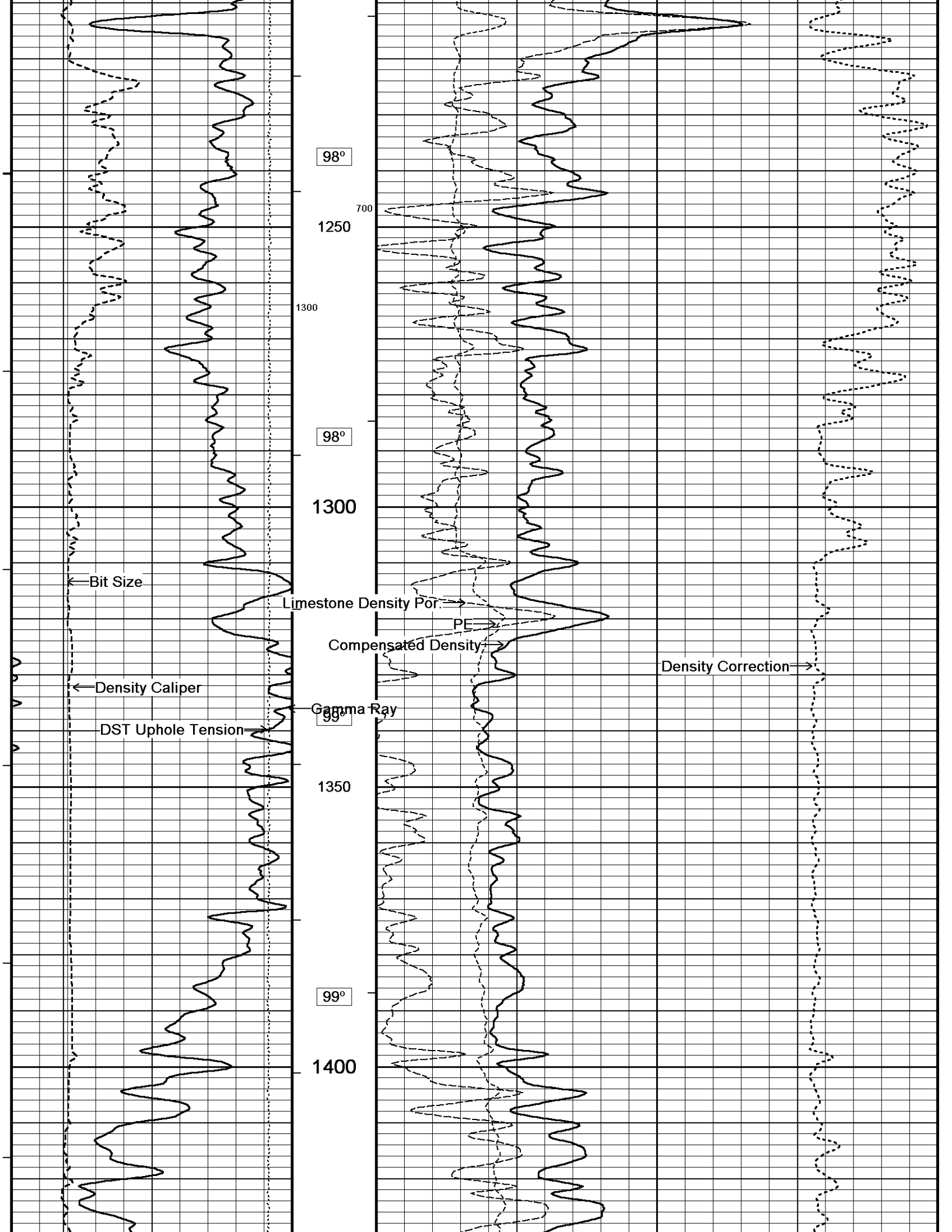
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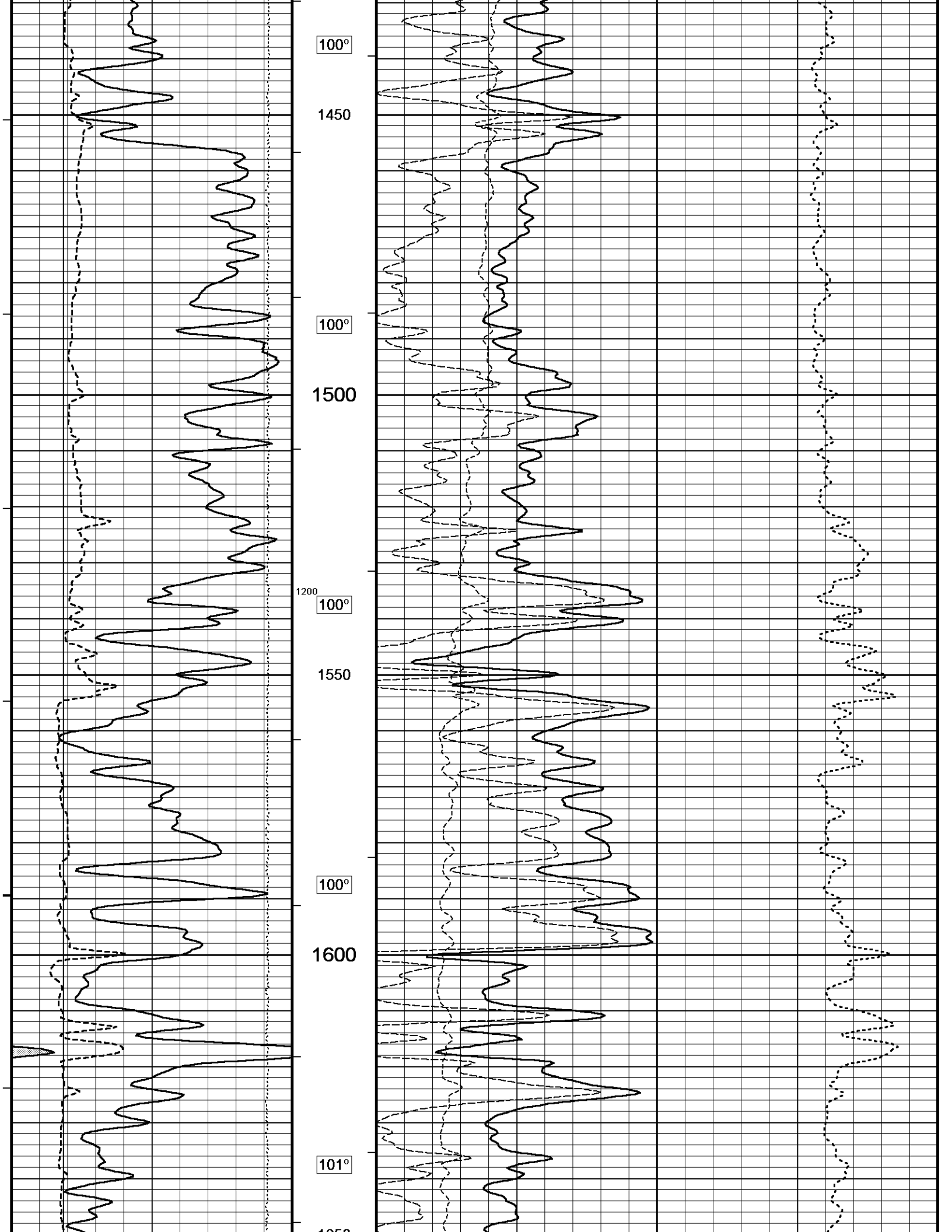


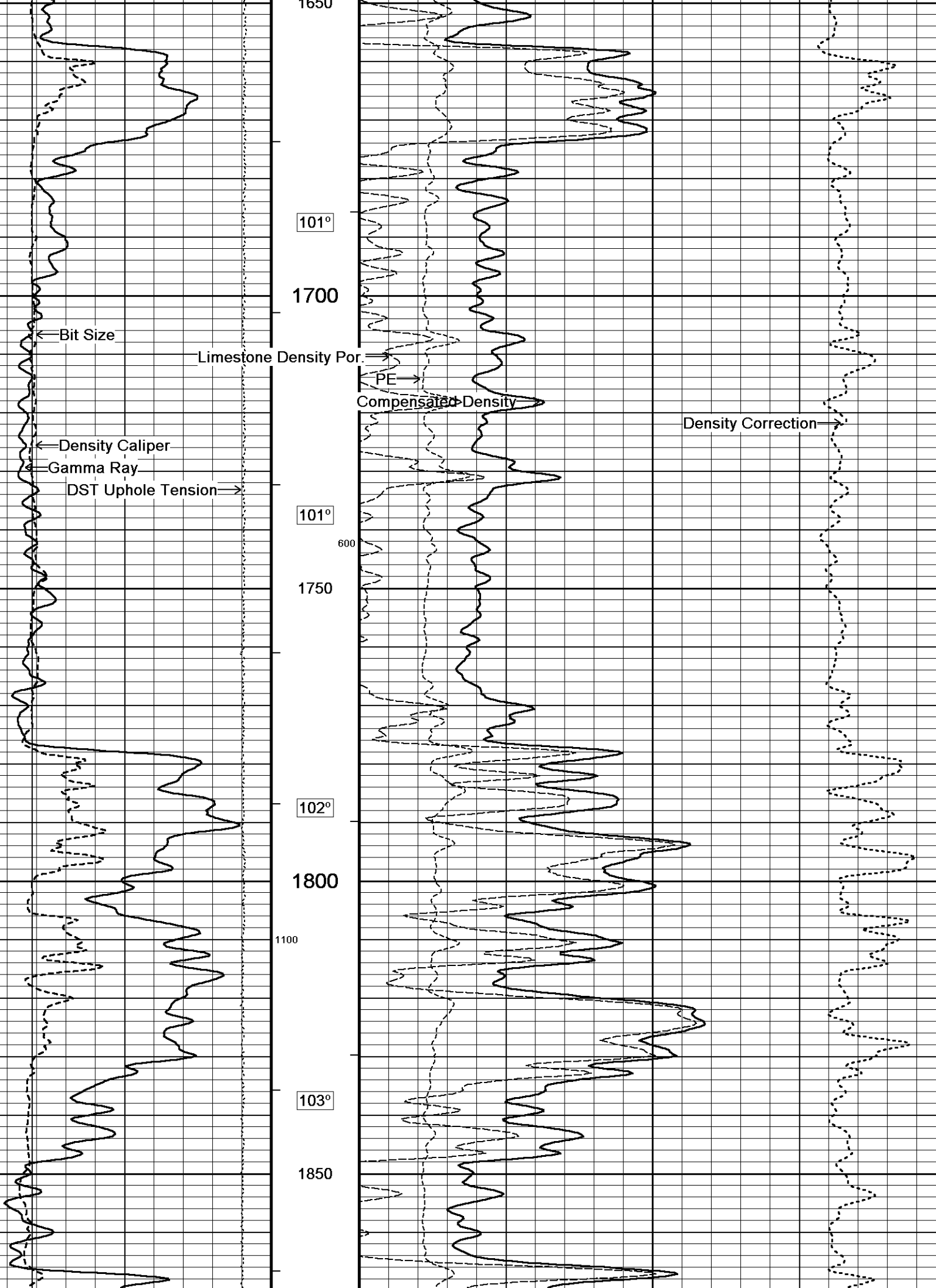


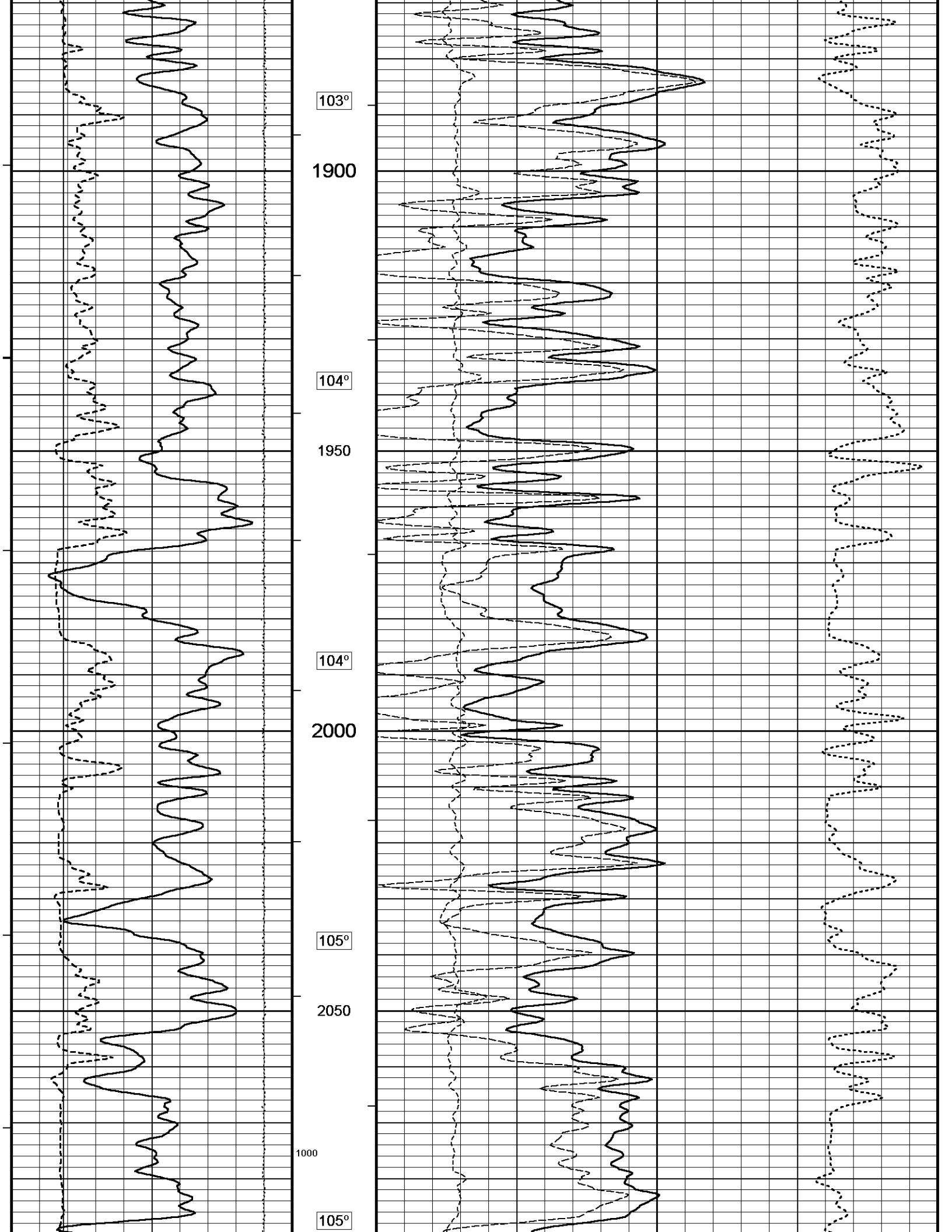


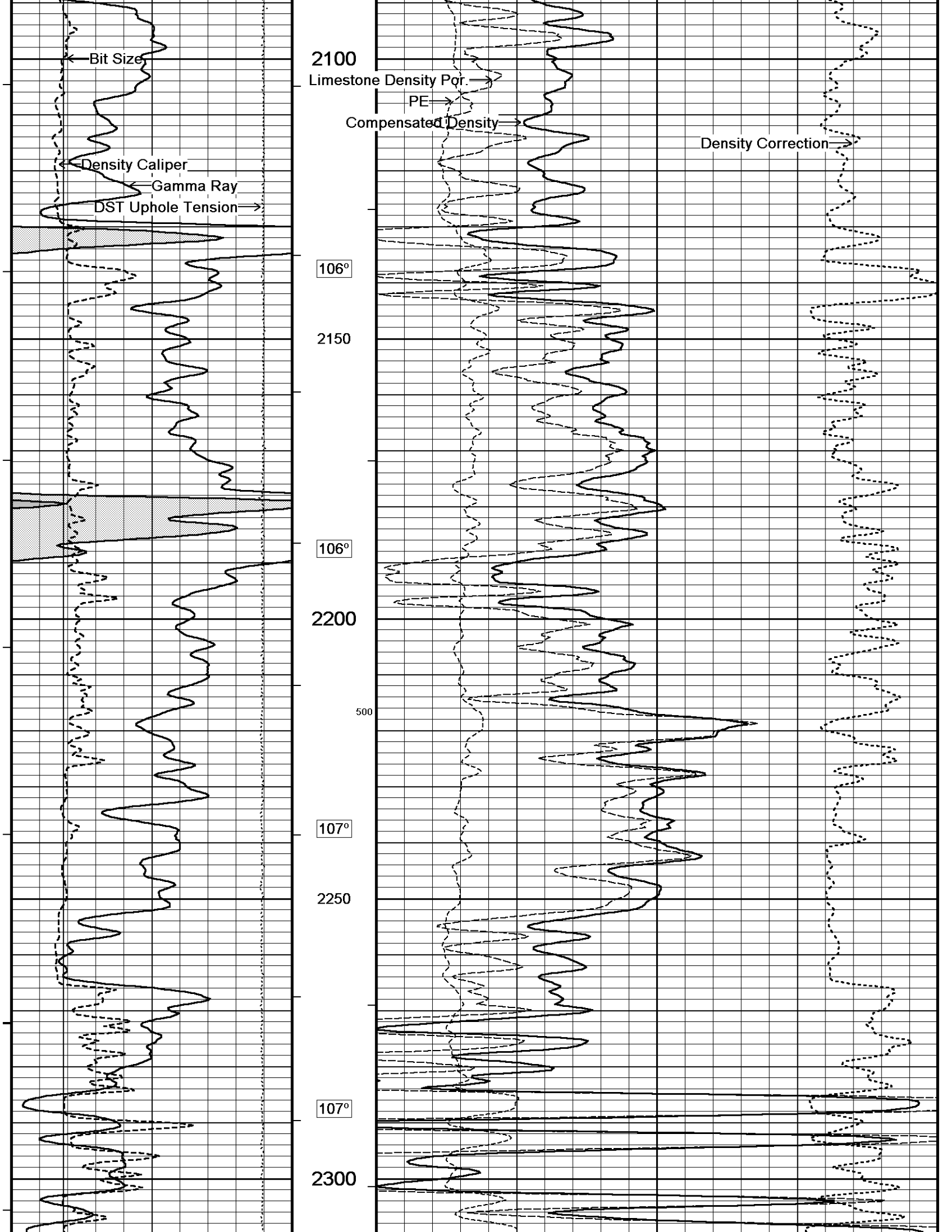


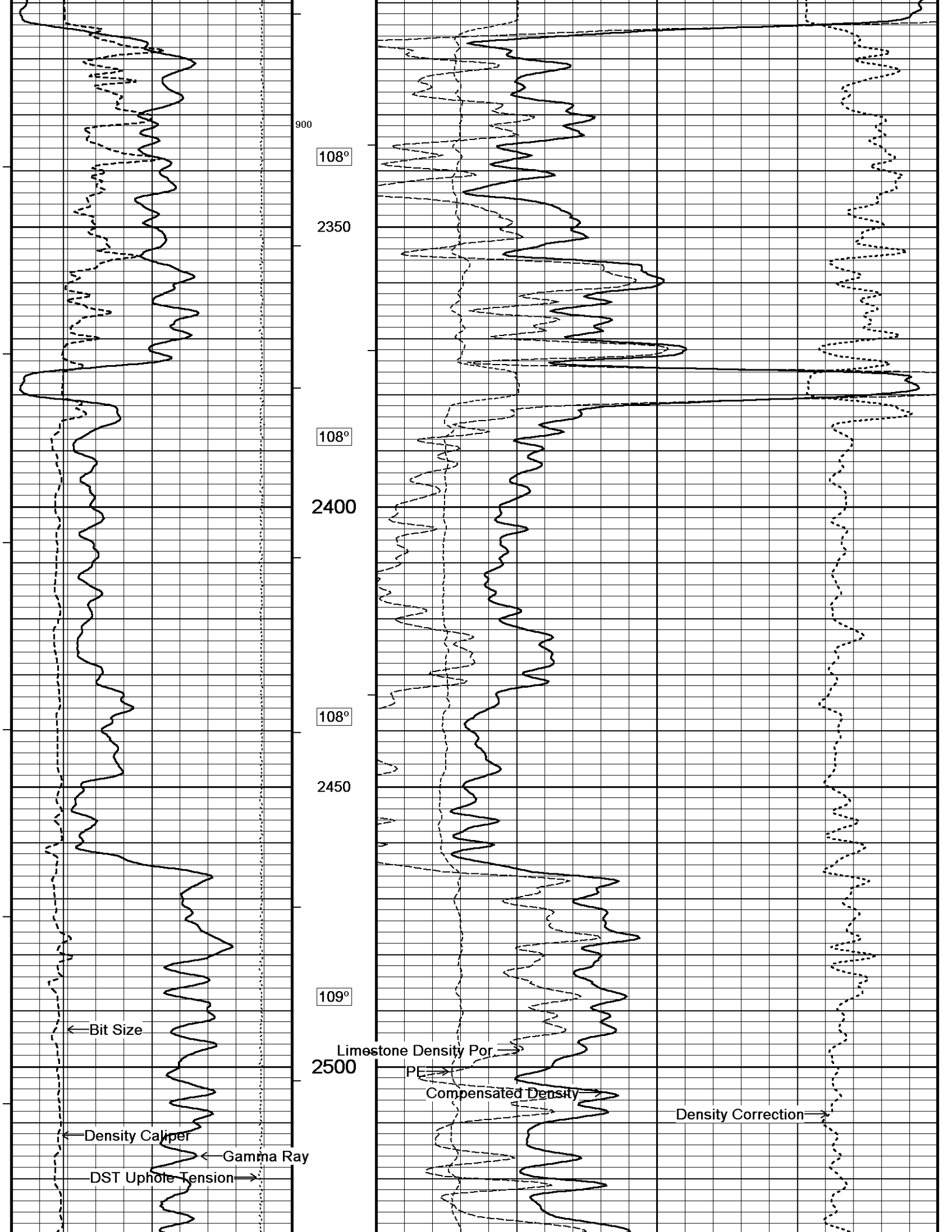


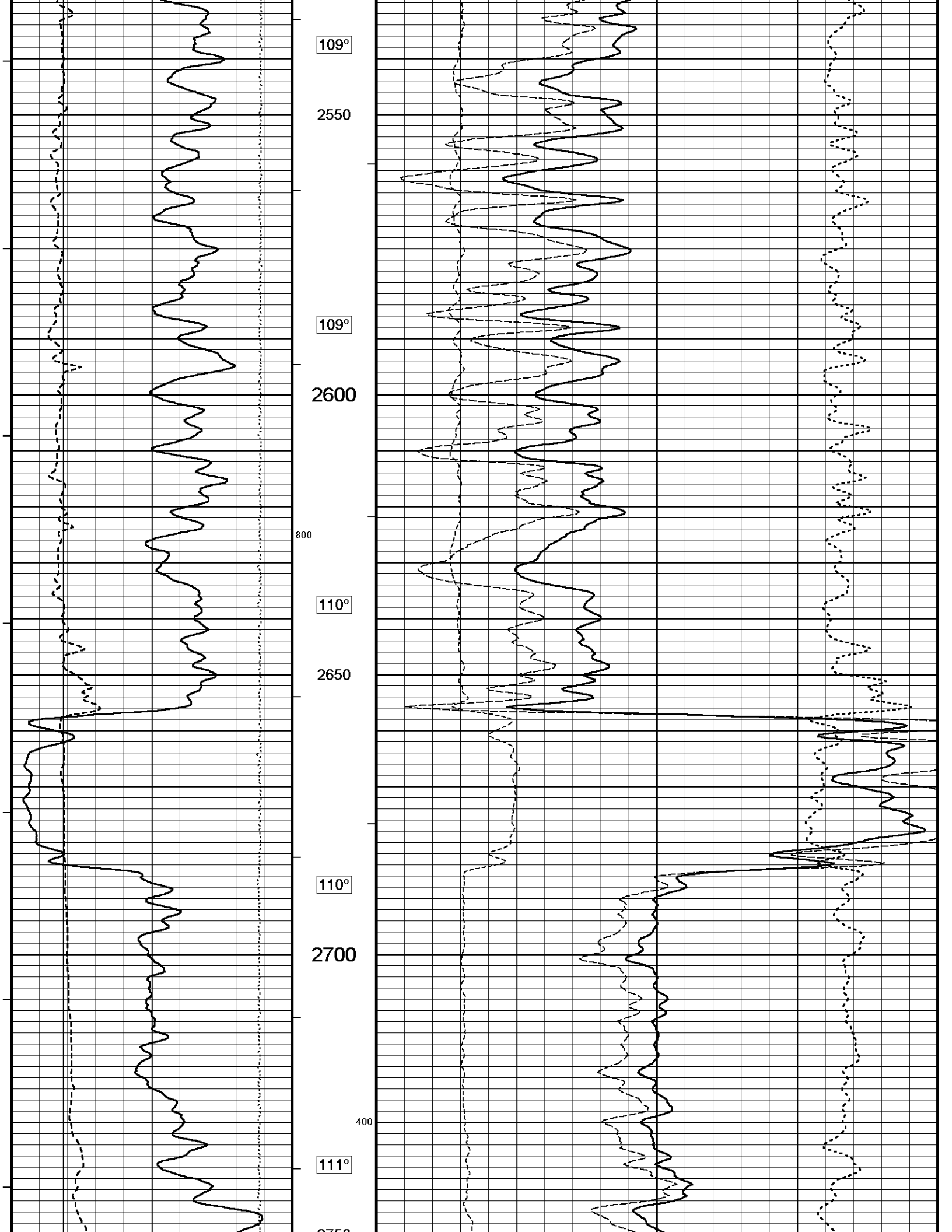


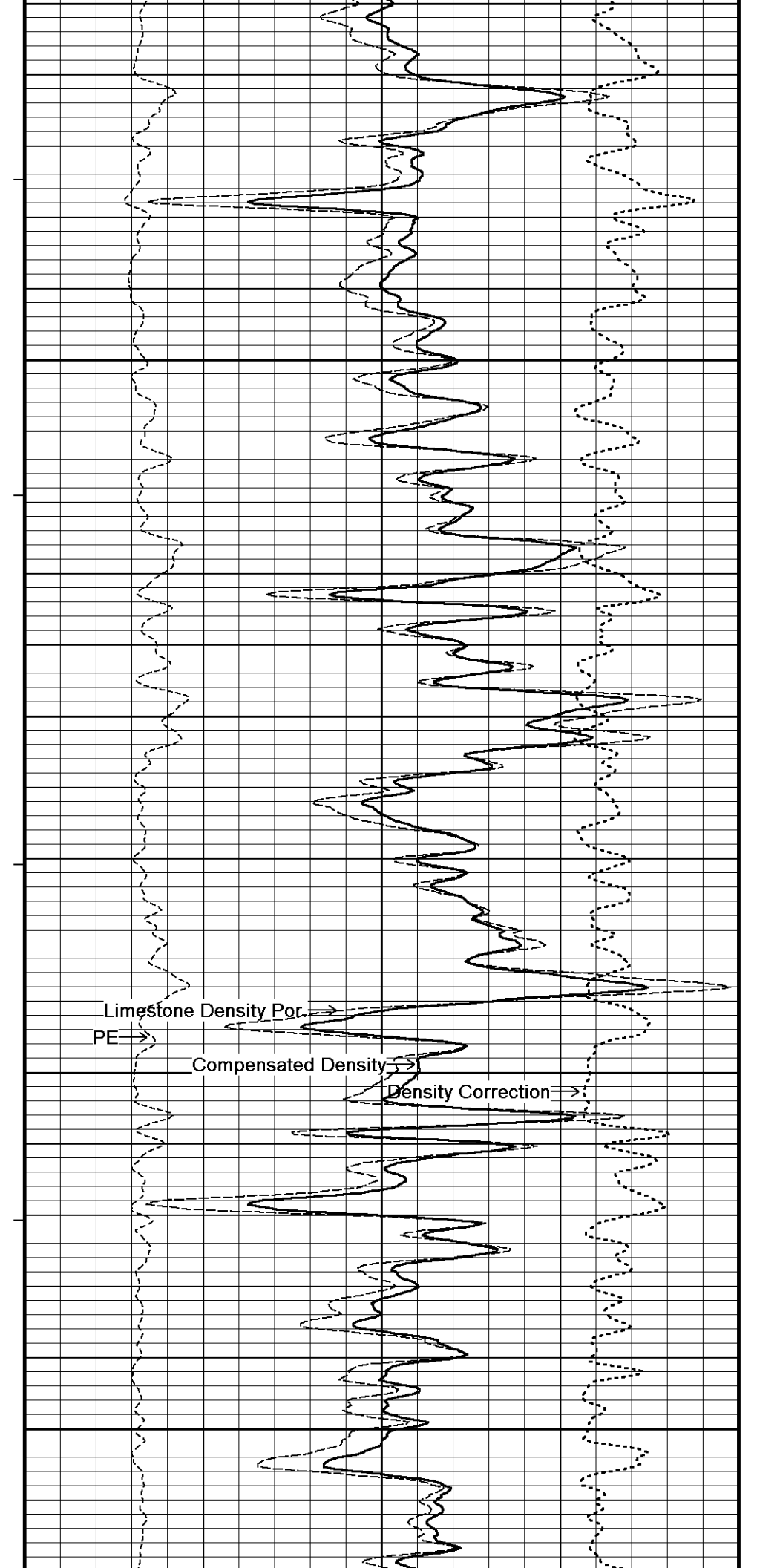
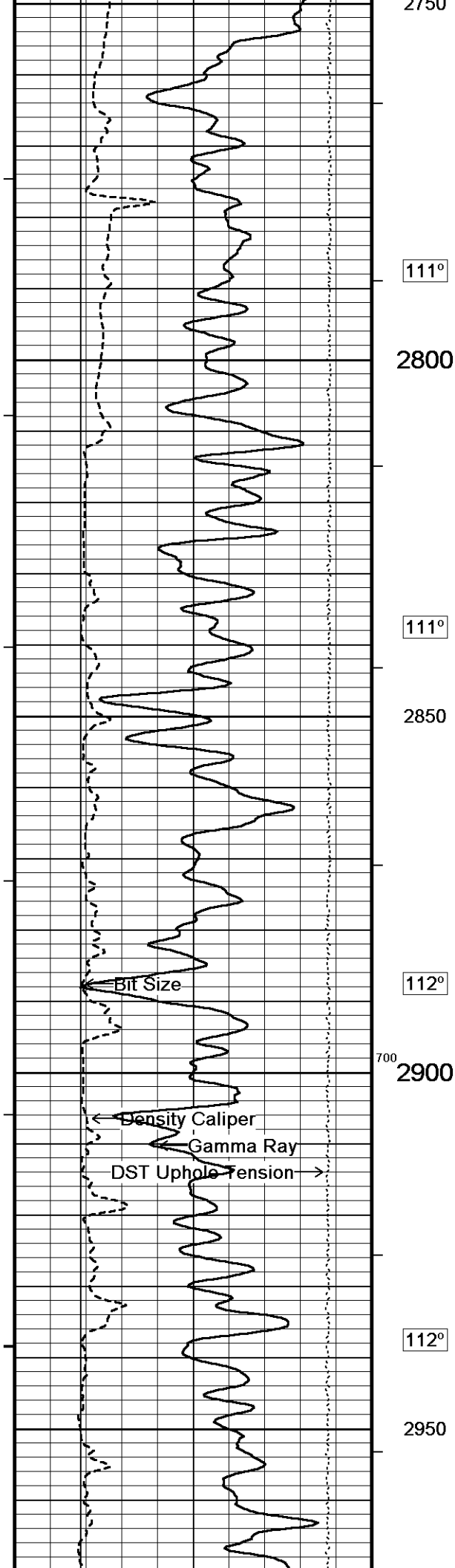


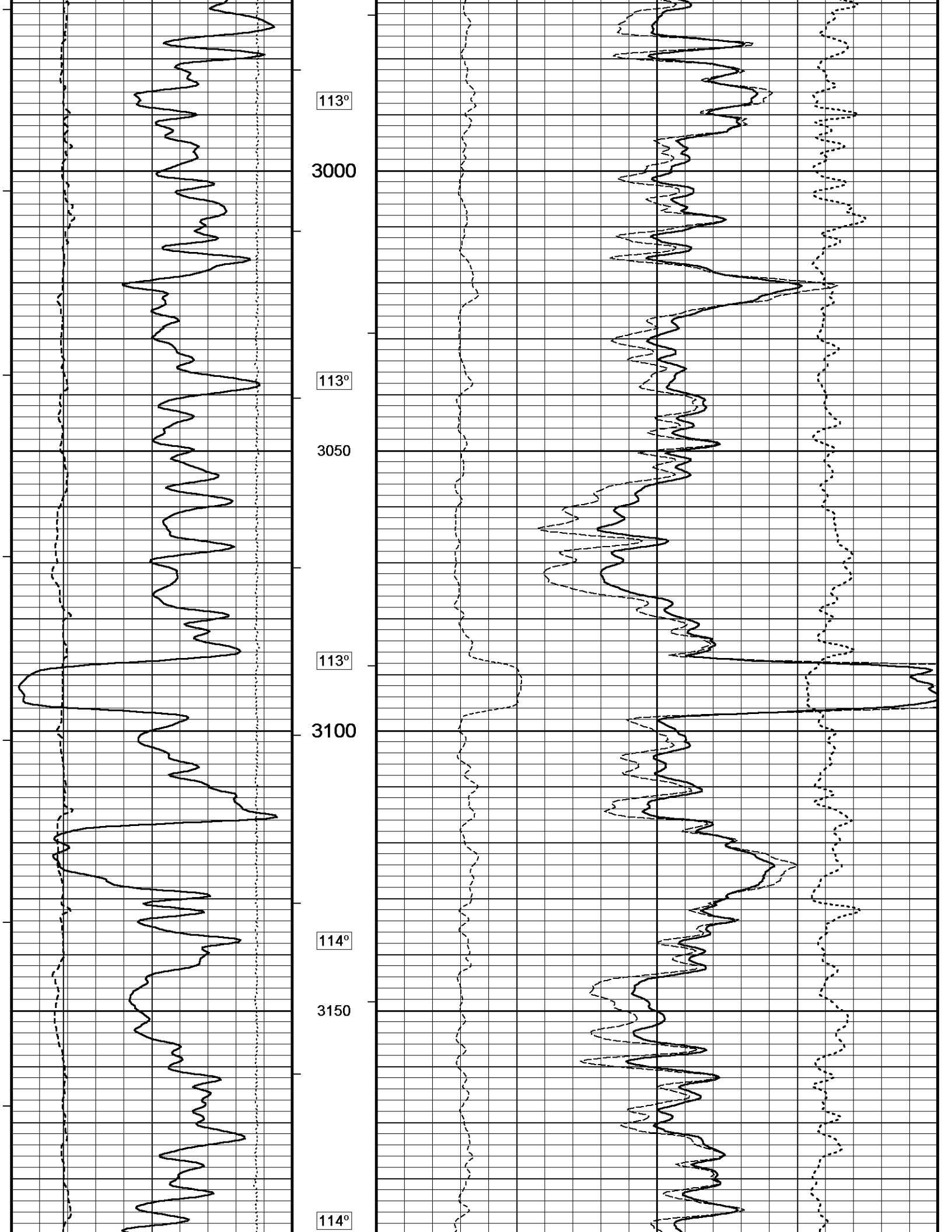


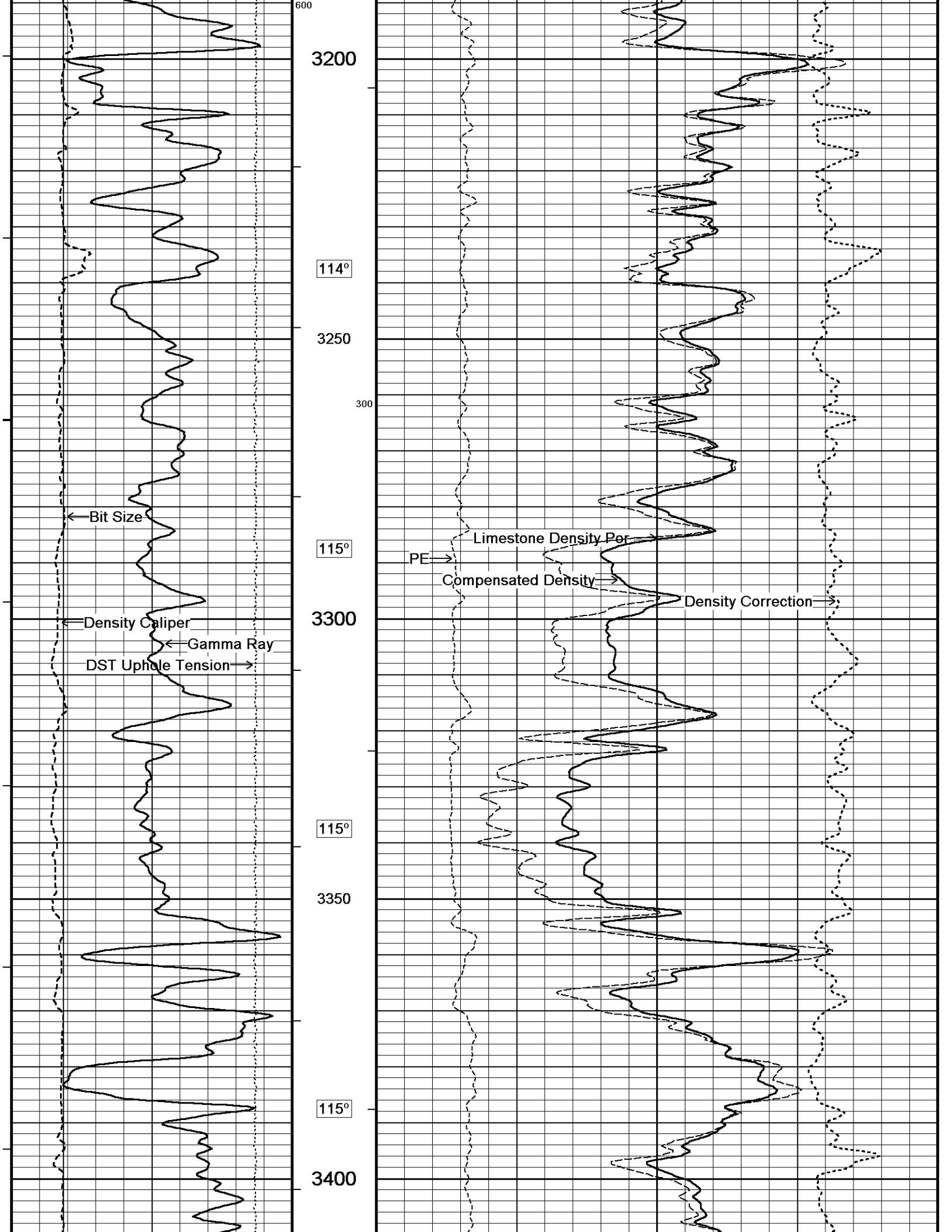


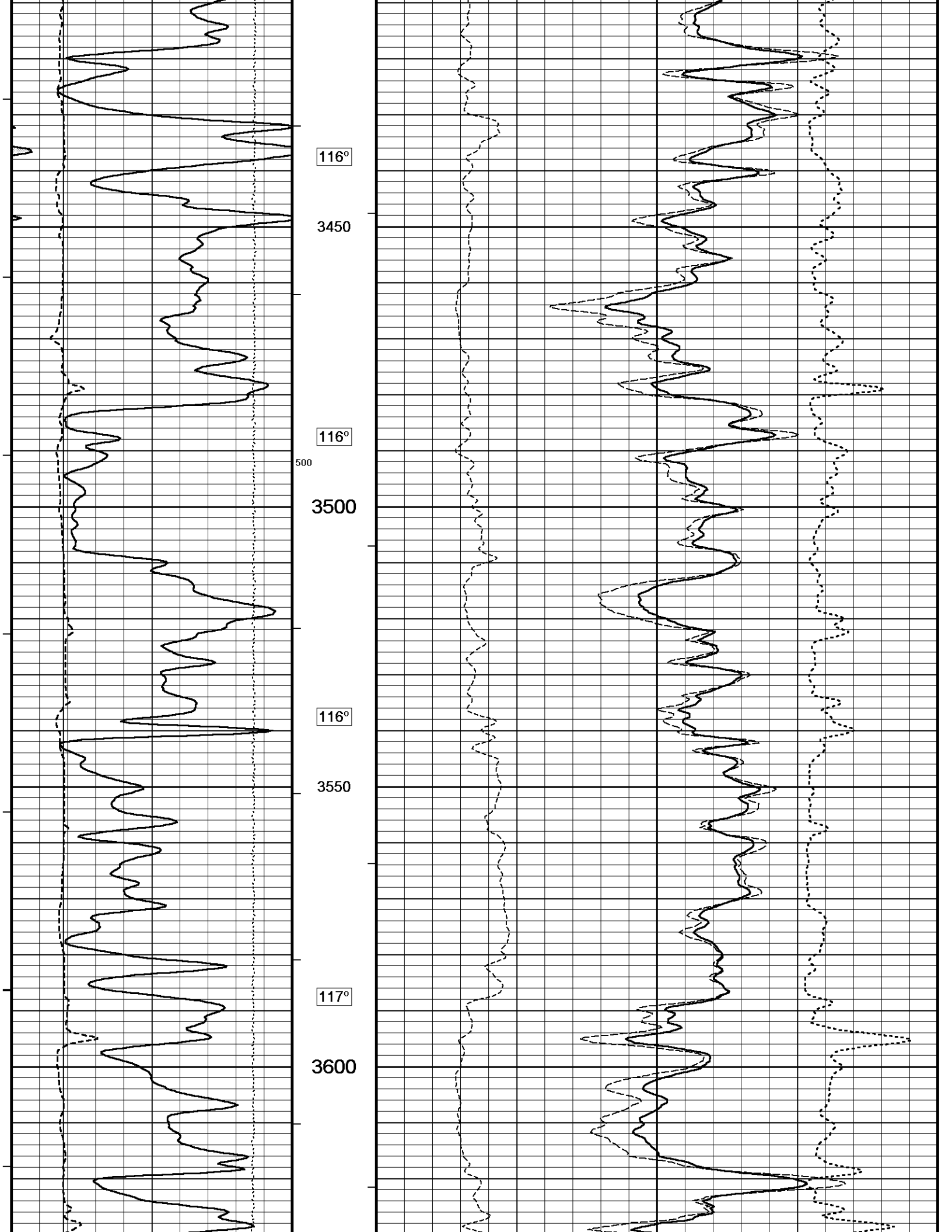


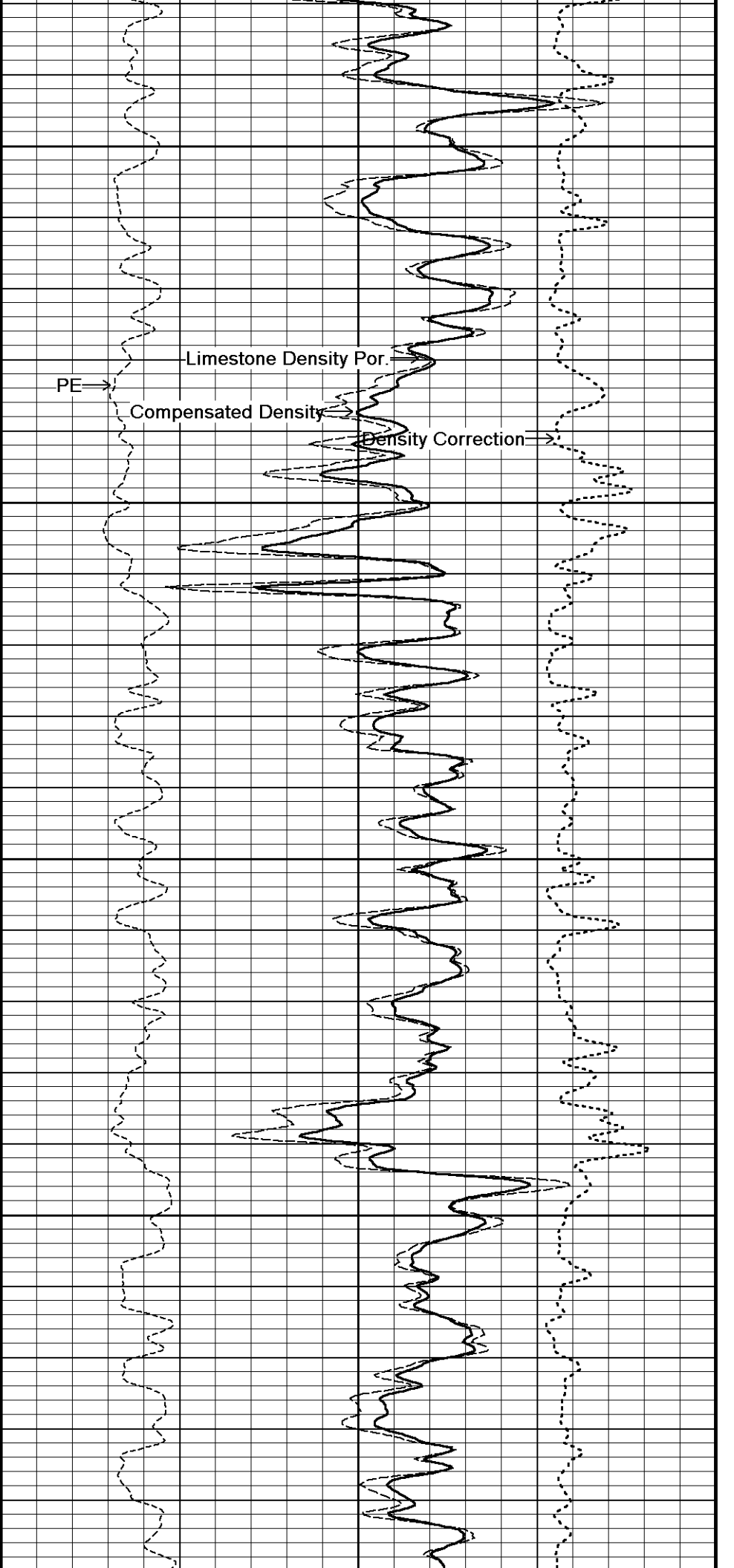
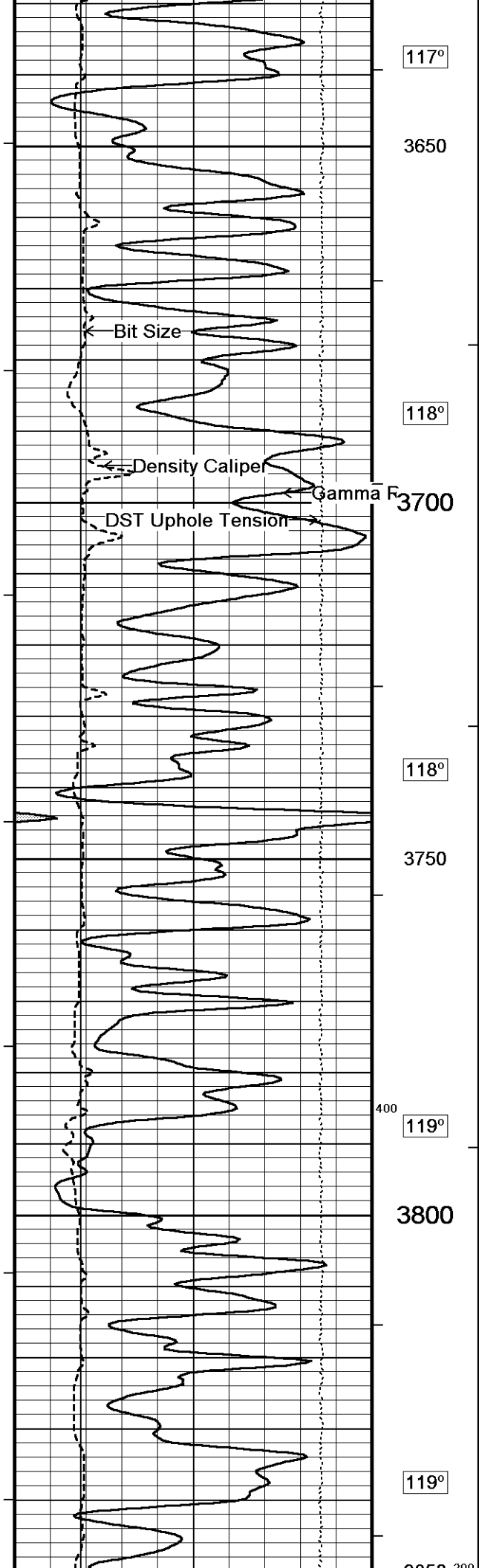


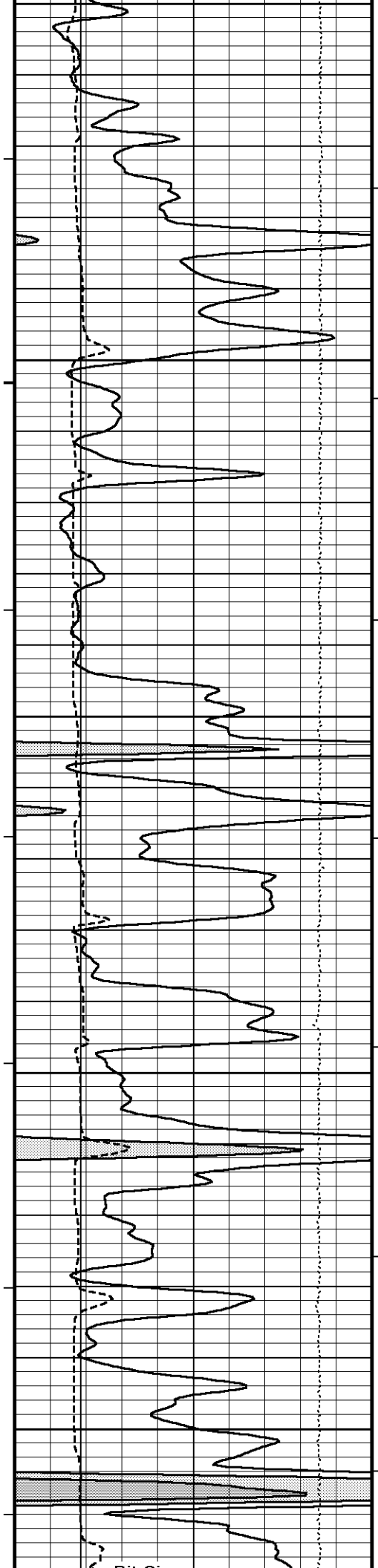












3850

119°

3900

120°

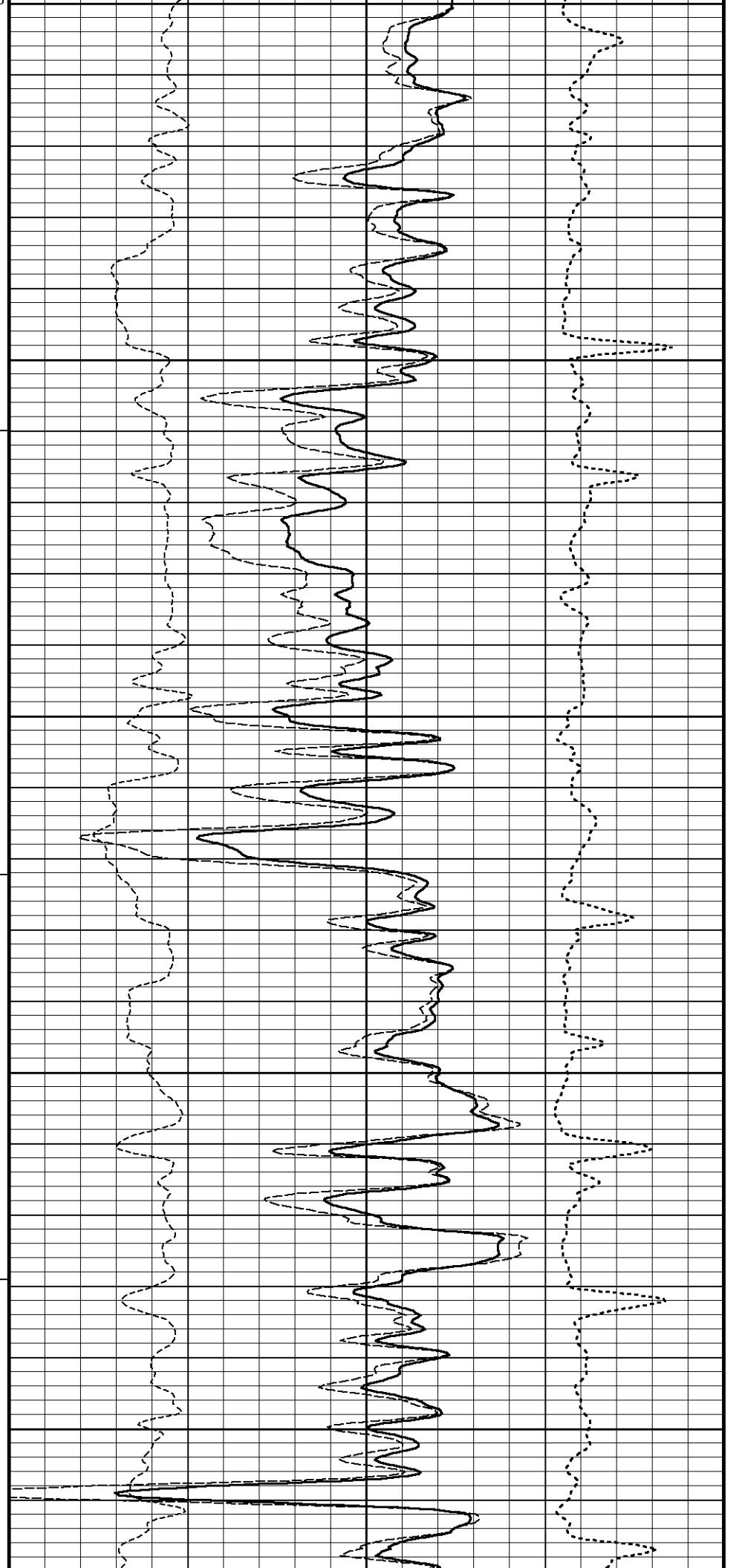
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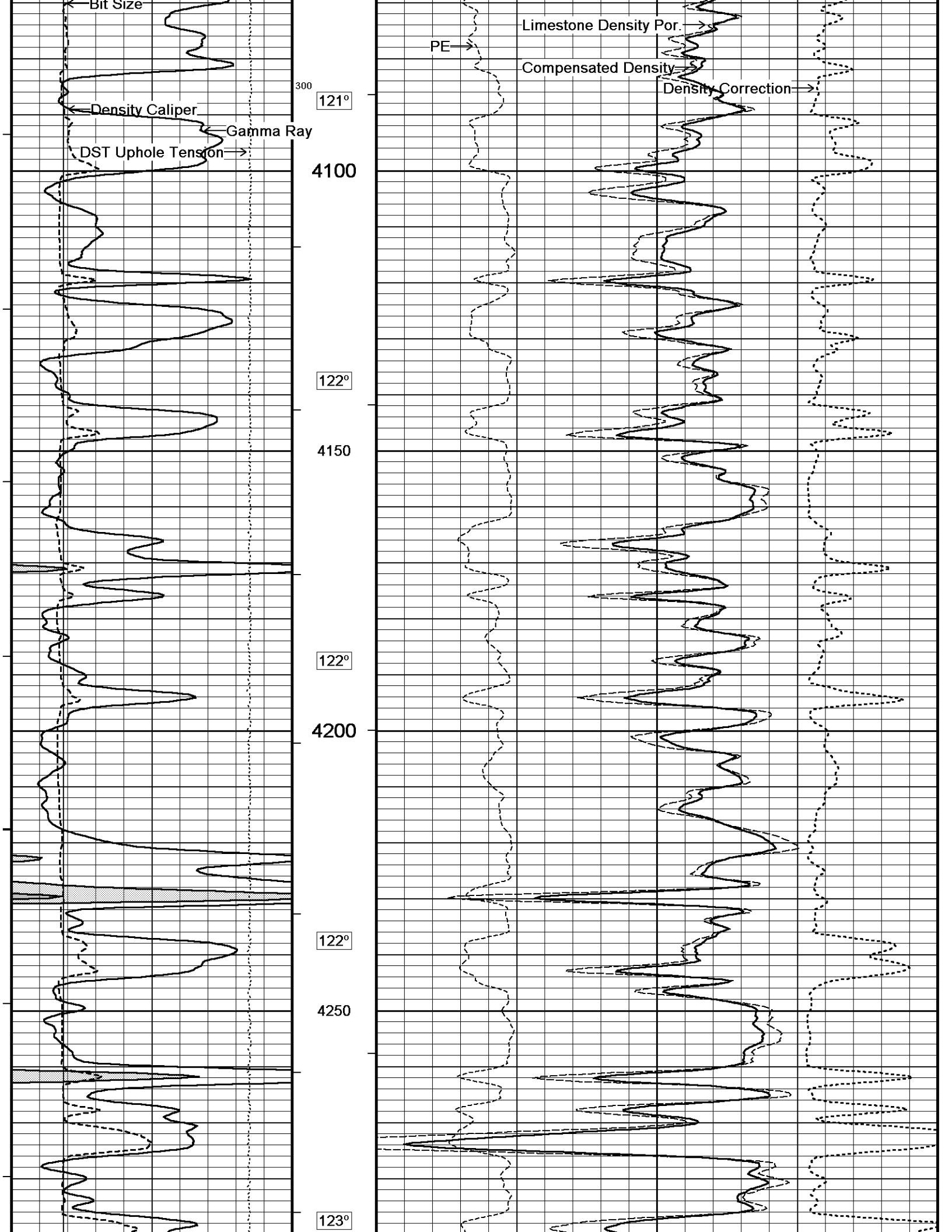
120°

4000

121°

4050





Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

300

121°

4100

122°

4150

122°

4200

122°

4250

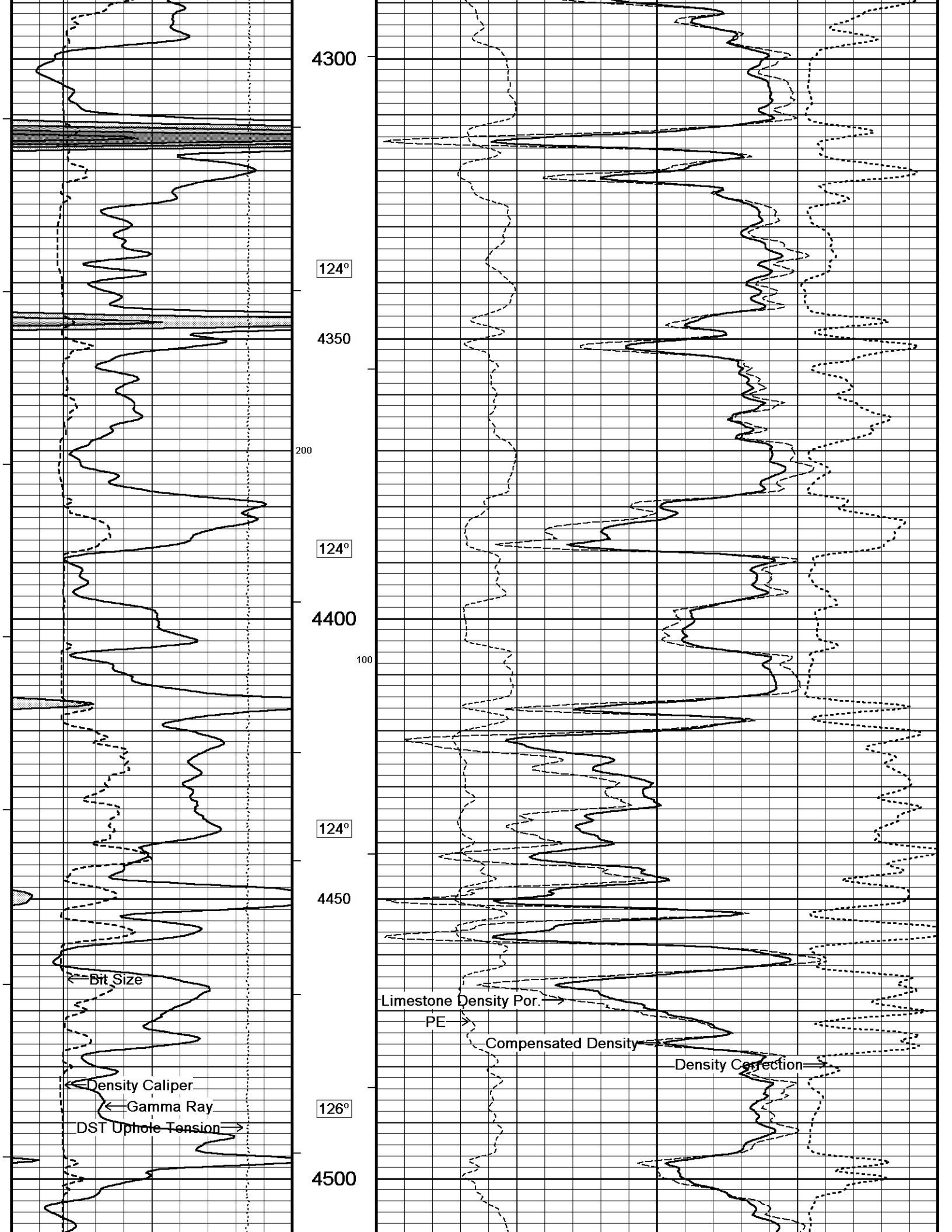
123°

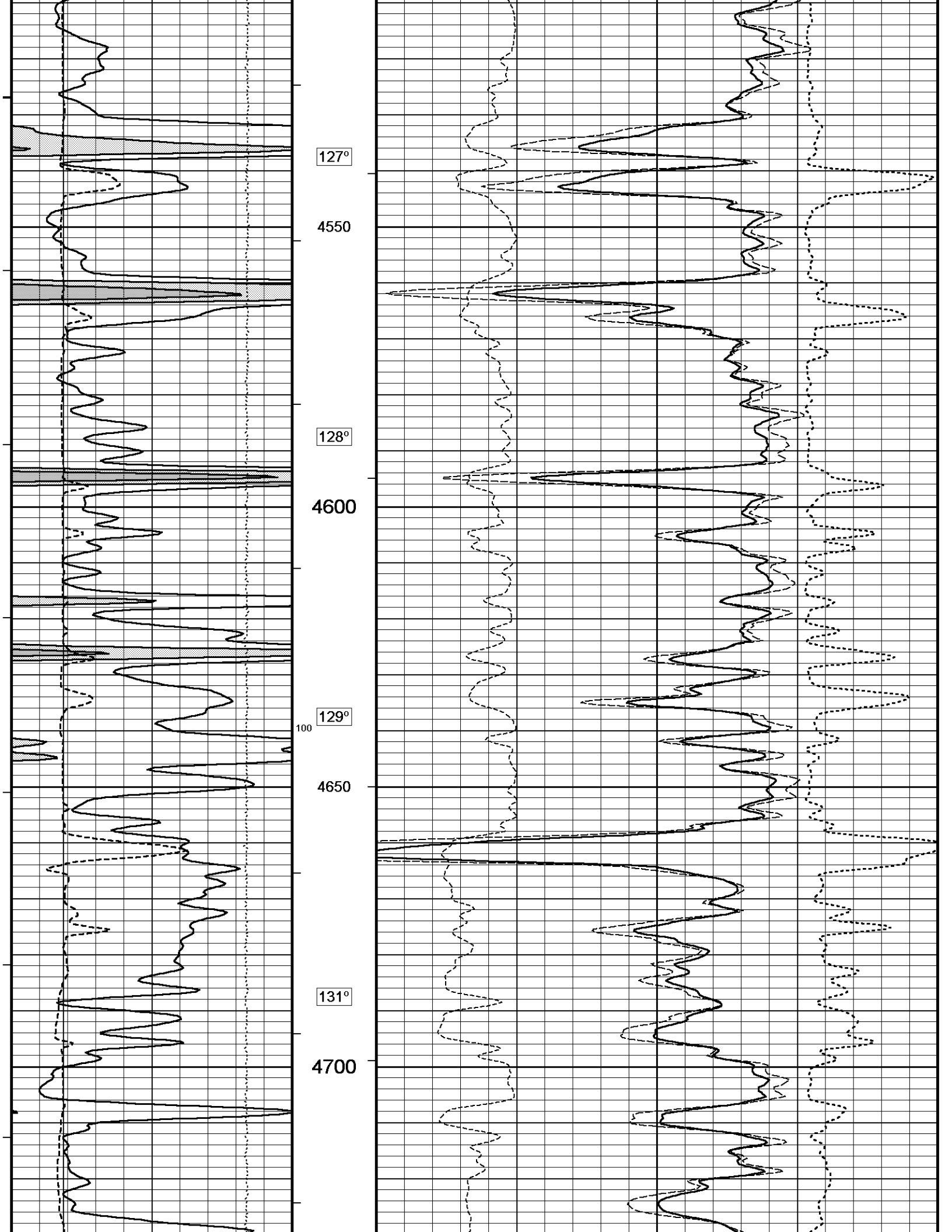
PE

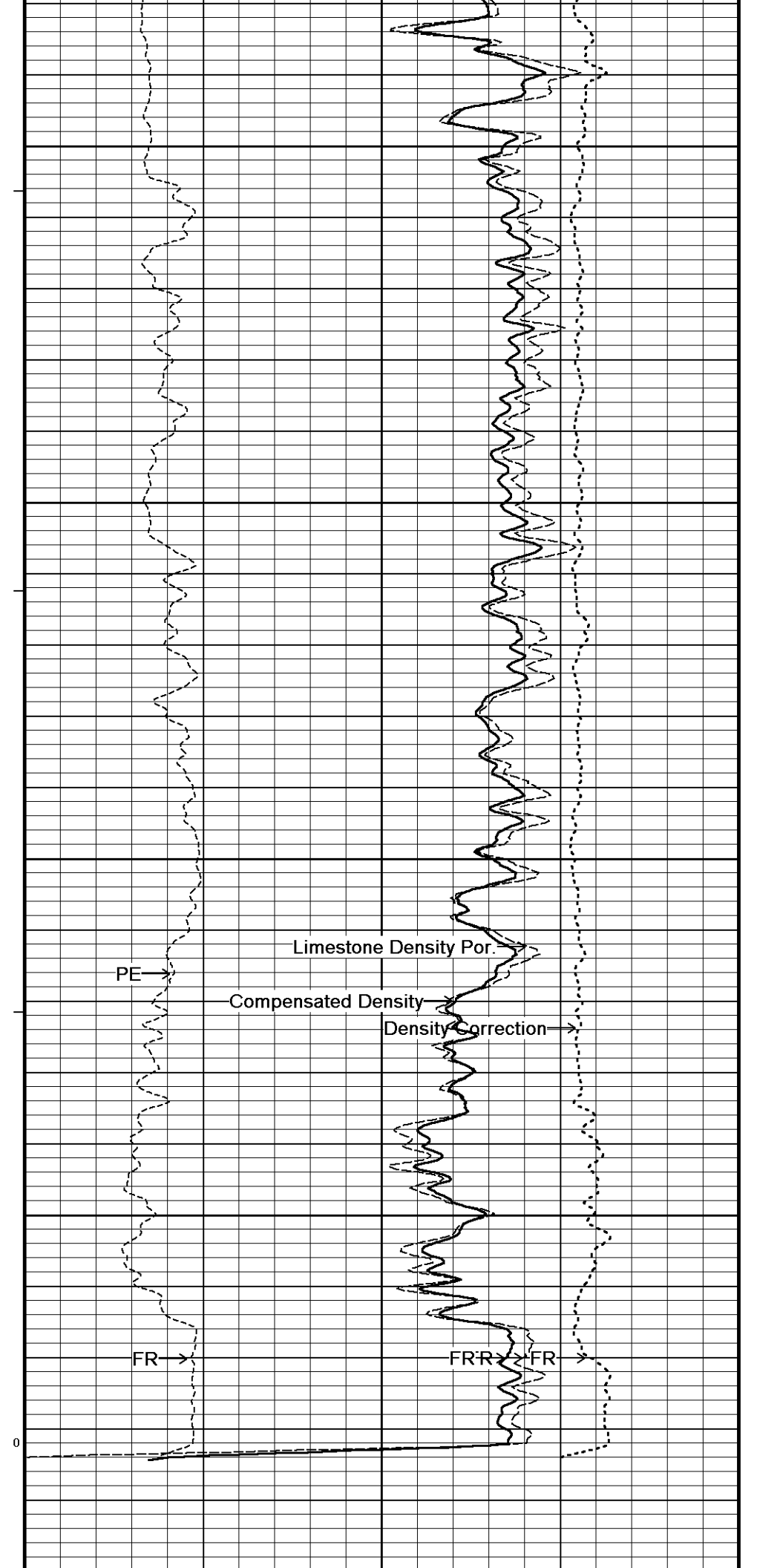
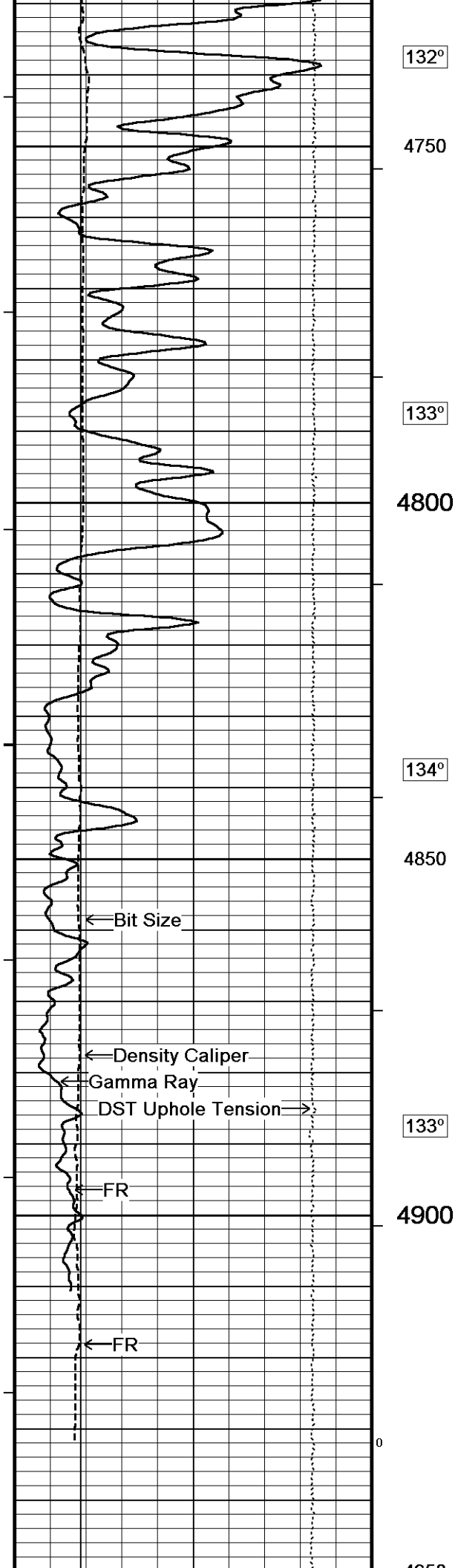
Limestone Density Por.

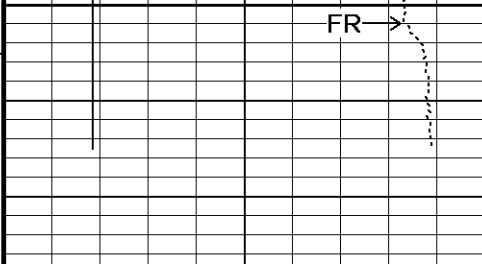
Compensated Density

Density Correction

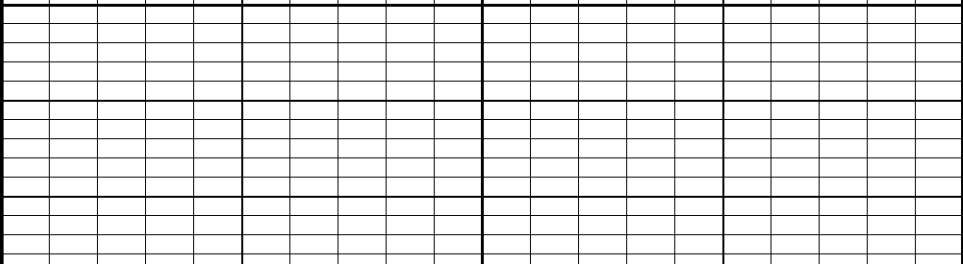








4950
4974



← Timing Marks
every 60.0 sec

Depth
In
Feet

2 2.25 2.50 2.75 3

Gamma Ray
API
0 75 150
150 225 300

Borehole
Temp in
deg F

Limestone Density Por.
percent
30 20 10 0 -10

Density Caliper
inches
6 11 16

HVI
every
10 cu ft

← 30 20 10 0 -10

Bit Size
inches
6 11 16

Annular
Integral
every
10 cu ft →

PE
barns/electron
0 5 10 -0.50

DST Uphole Tension
pounds
5000 0

Replay
Scale
1:240

Density Correction
grams/cc
0 0.50

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 15-DEC-2013 19:52
 Filename: C:\Minimus 13.05.9583\Log\FIML N...\FIML Natural Resources Goossen #8C-32-932_003.dta Recorded on 15-DEC-2013 16:31
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

↑ 5 INCH MAIN ↑

↓ REPEAT SECTION ↓

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 15-DEC-2013 19:52
 Filename: C:\Minimus 13.05.9583\Log\FIML N...\FIML Natural Resources Goossen #8C-32-932_002.dta Recorded on 15-DEC-2013 15:38
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

← Timing Marks
every 60.0 sec

Depth
in
Feet

2 2.25 2.50 2.75 3

Gamma Ray
API
0 75 150
150 225 300

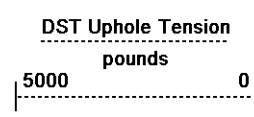
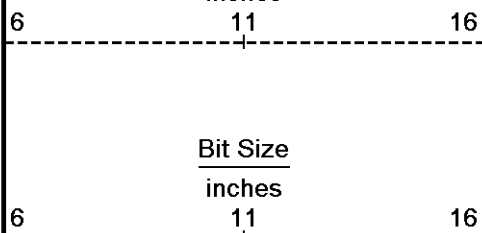
Borehole
Temp in
deg F

Limestone Density Por.
percent
30 20 10 0 -10

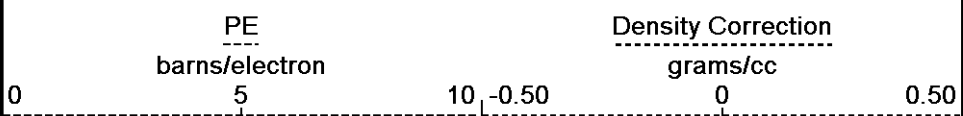
Density Caliper
inches
6 11 16

HVI
every
10 cu ft ←

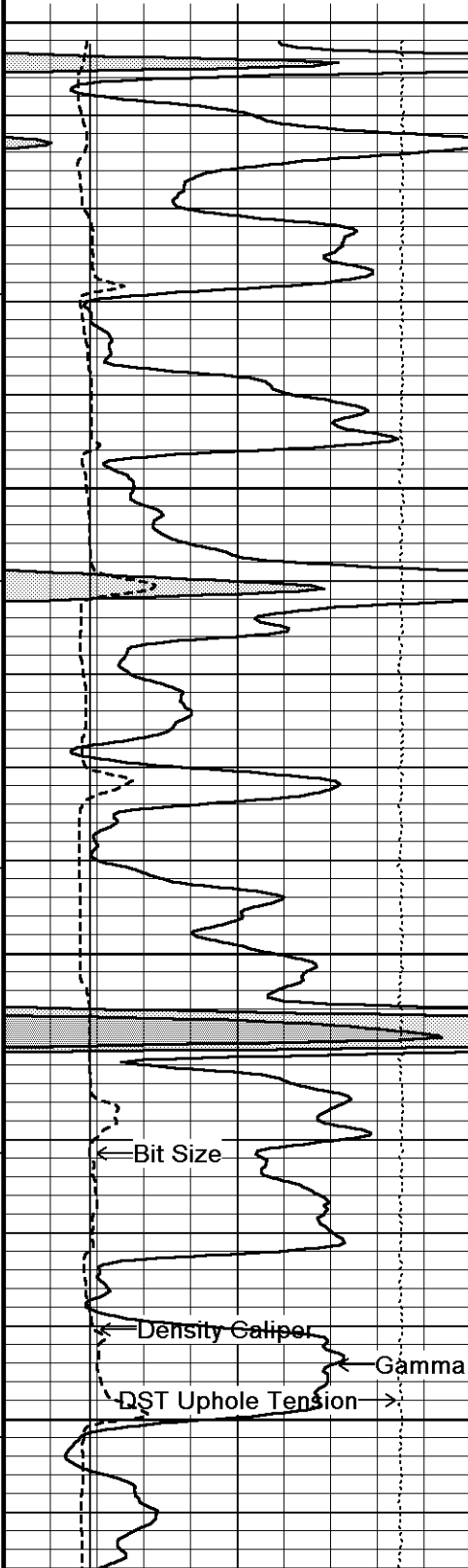
← 30 20 10 0 -10



Annular
Integral
every
10 cu ft



Replay
Scale
1:240



3950

120°

4000

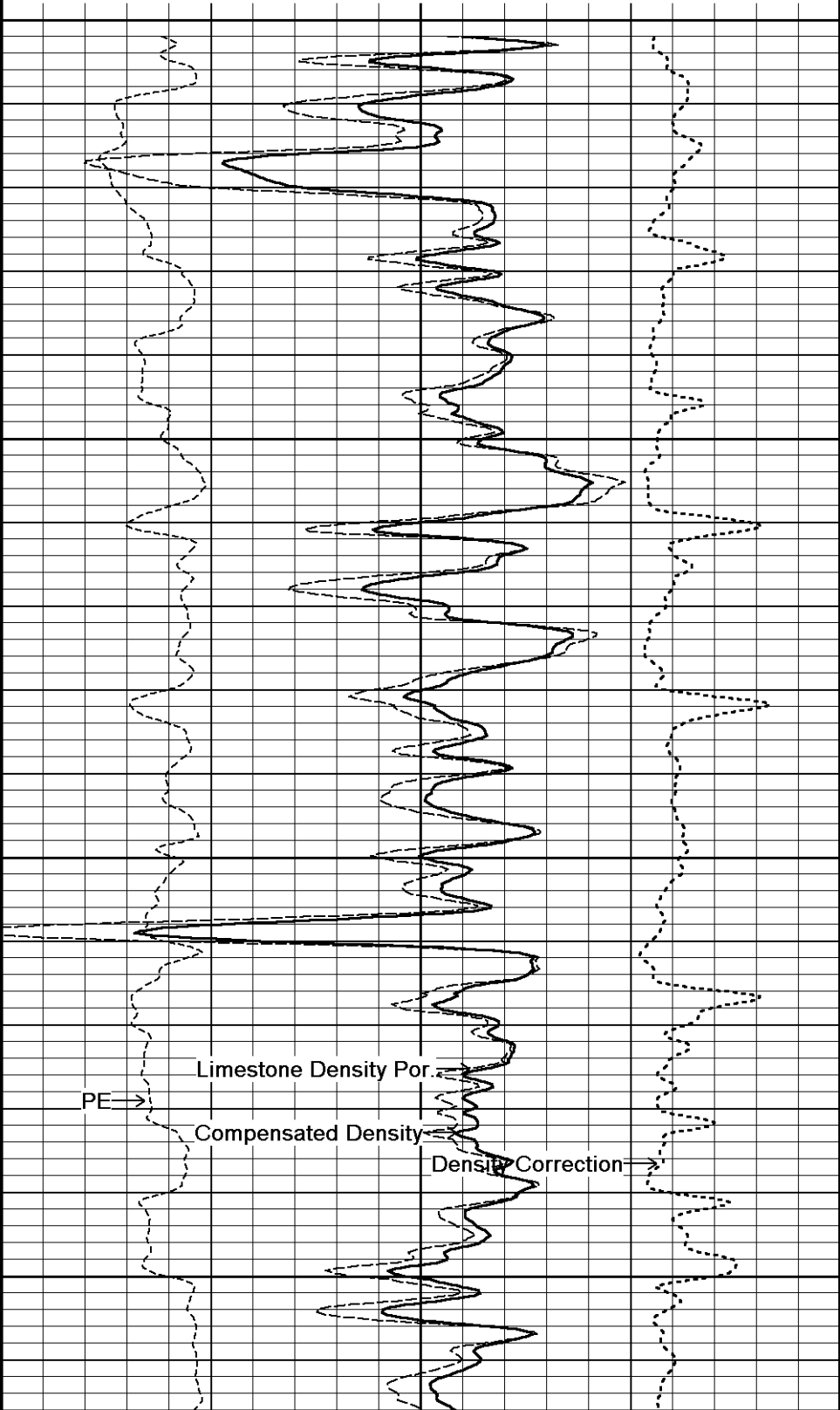
120°

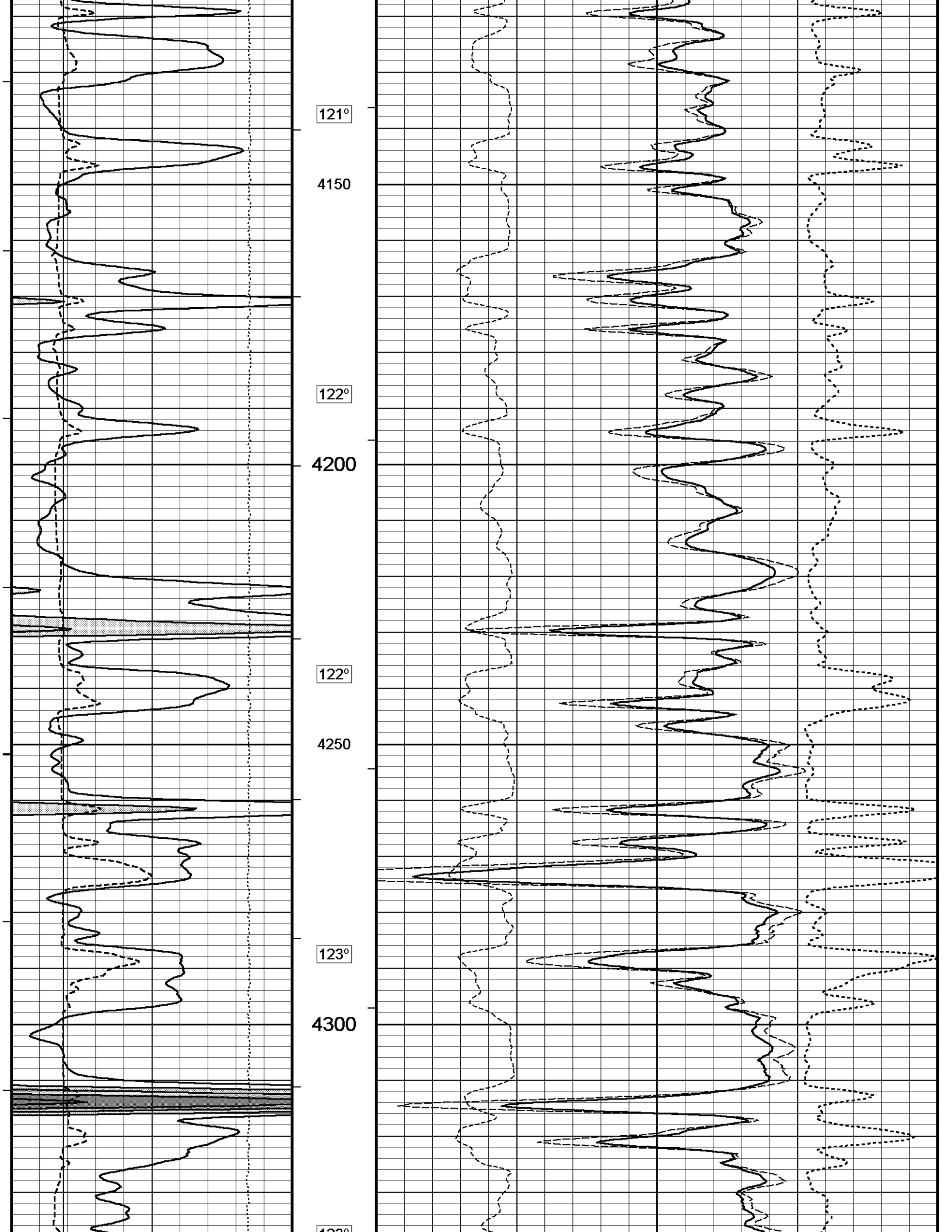
4050

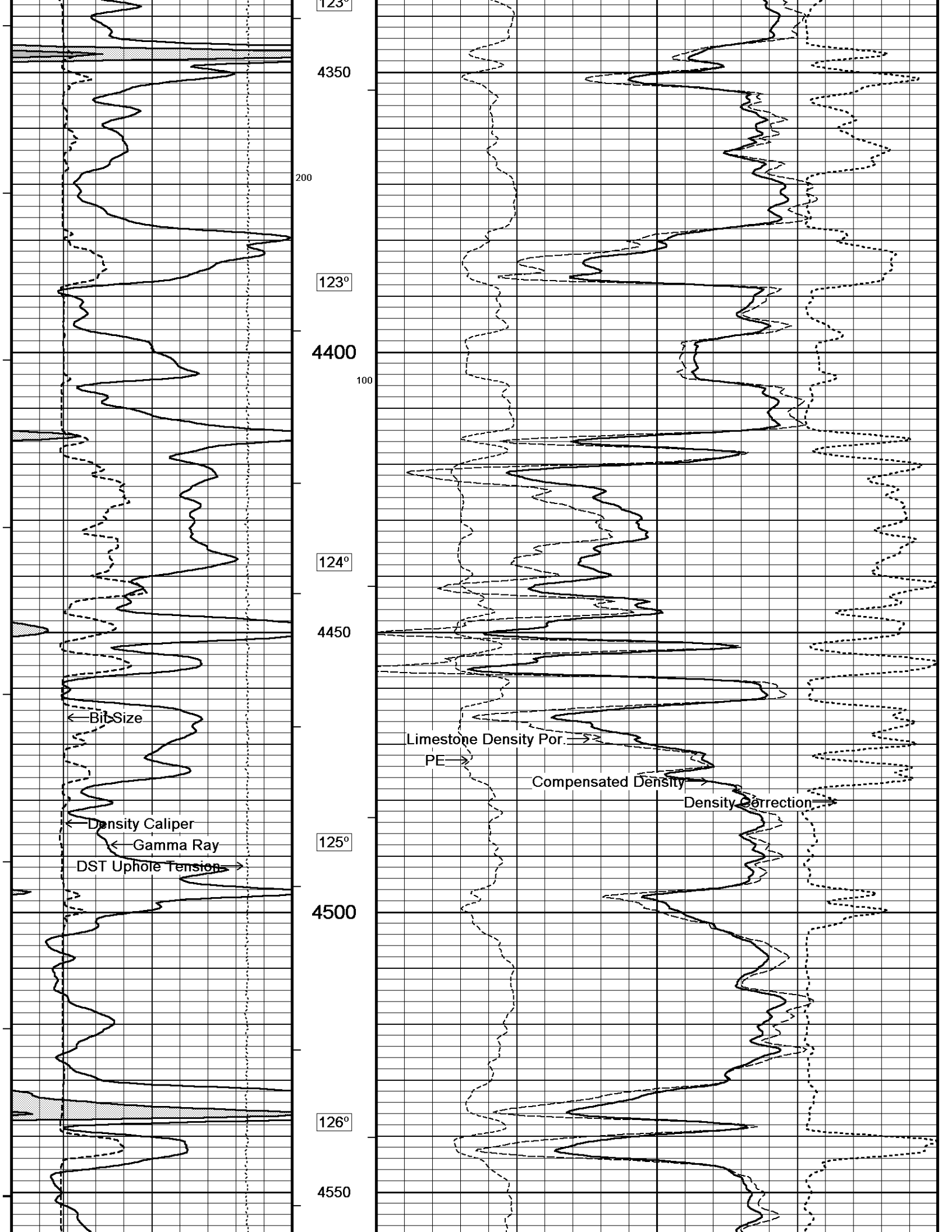
300

121°

4100







123°

4350

200

123°

4400

100

124°

4450

← Bit-Size

Limestone Density Por. →

PE →

Compensated Density →

Density Correction →

← Density Caliper

← Gamma Ray

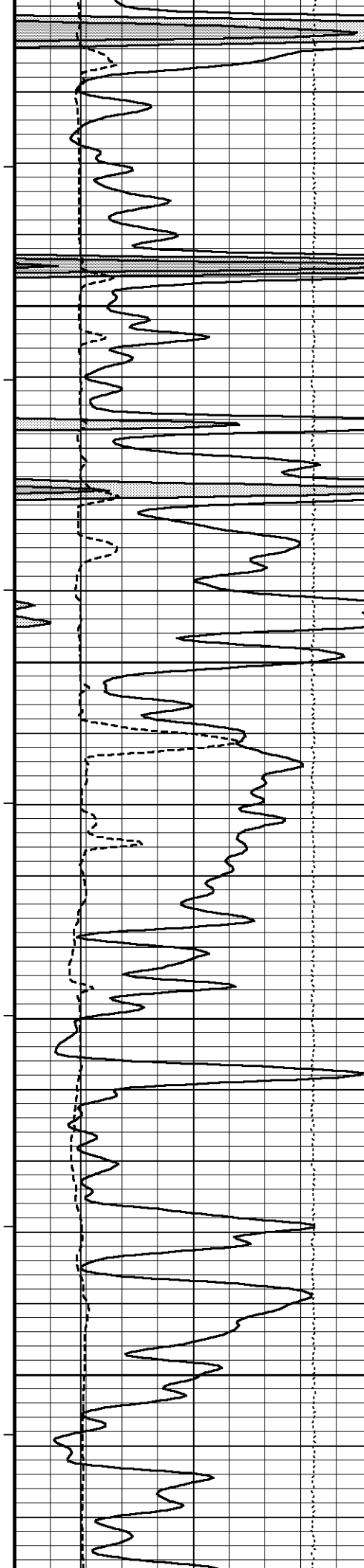
125°

DST Uphole Tension →

4500

126°

4550



127°

4600

128°

4650

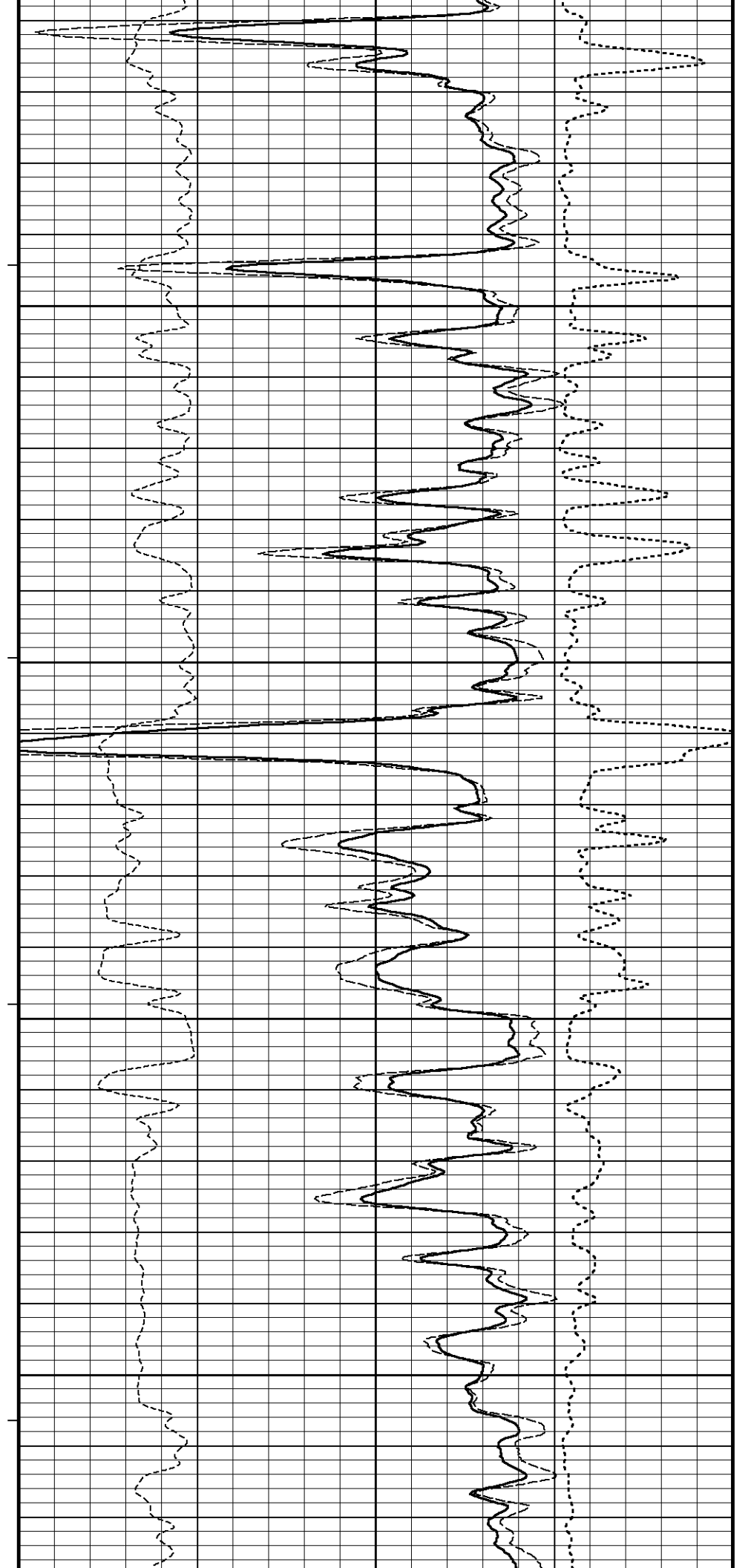
130°

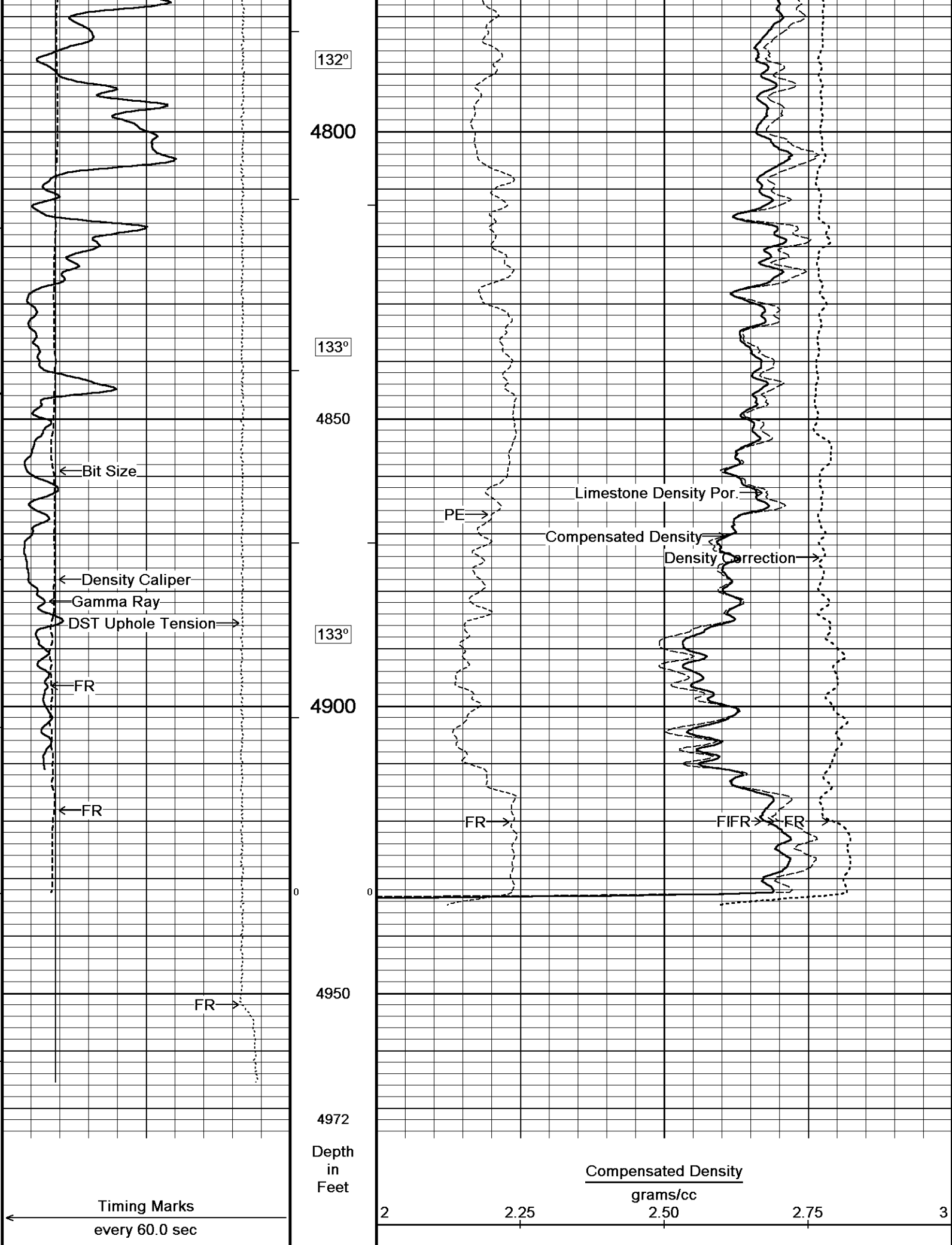
4700

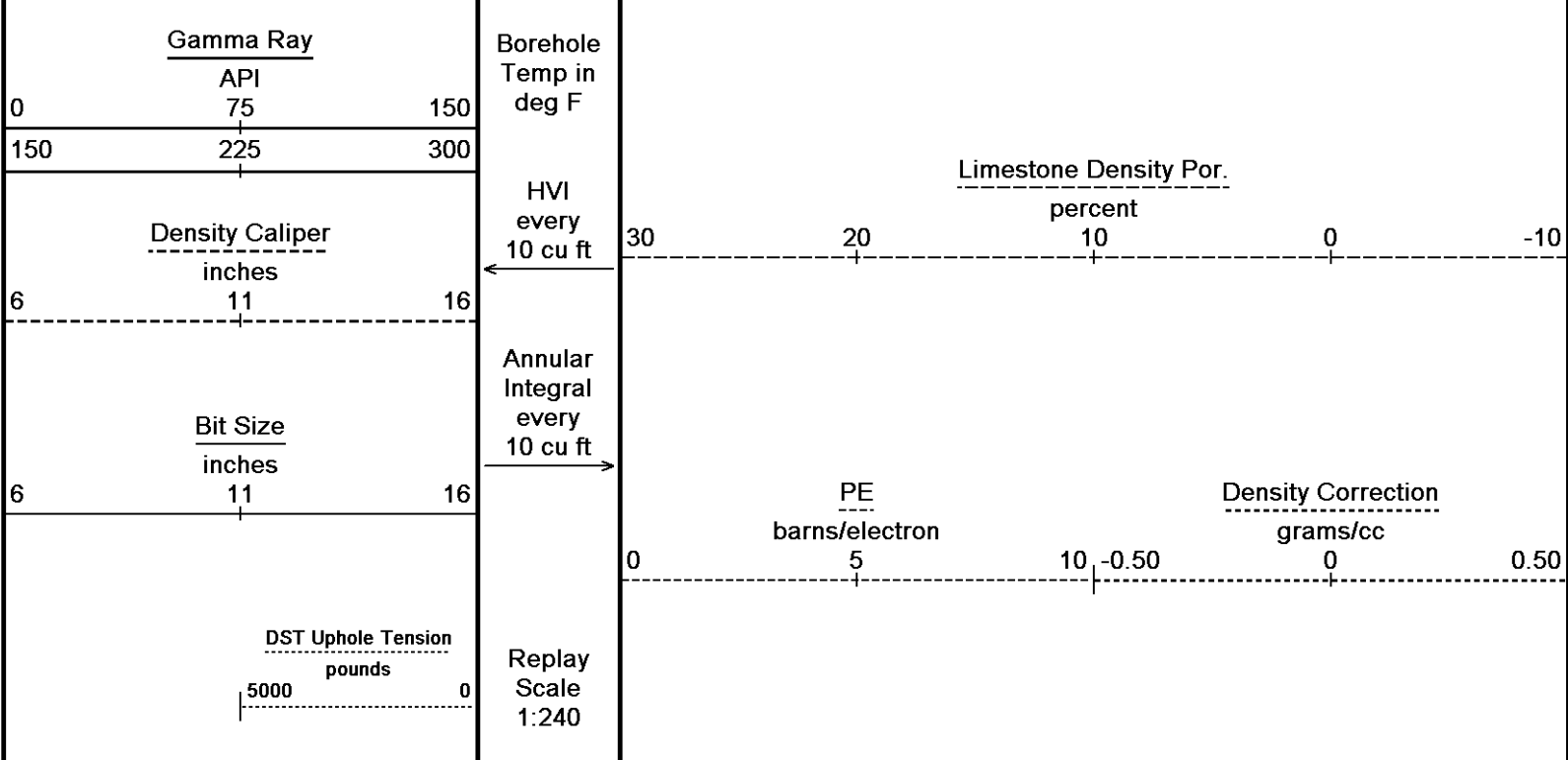
131°

4750

100







Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 15-DEC-2013 19:52
 Filename: C:\Minimus 13.05.9583\Log\FIML N...FIML Natural Resources Goossen #8C-32-932_002.dta
 Recorded on 15-DEC-2013 15:38
 System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 13.05.9583\Log\FIML Natural Resources Goossen #8C-32-932\FIML Natural Resources Goossen #8C-32-932_003.dta

General Constants All 000 Last Edited on 15-DEC-2013,08:27

General Parameters		
Mud Resistivity	1.310	ohm-metres
Mud Resistivity Temperature	96.000	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	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	5.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Crossplot Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	
SW/APOR Tool Source	0.000	

Down-hole Tension Calibration SMS 0 Field Calibration on 14-DEC-2013 20:34

Reading No	Measured	Calibrated (lbs)
1	15595.29	-2.00
2	16215.26	405.00

Gamma Calibration MCG-B 39 Field Calibration on 10-DEC-2013 12:25

	Measured	Calibrated (API)
Background	67	46
Calibrator (Gross)	1139	771
Calibrator (Net)	1071	725

Gamma Constants MCG-B 39

Gamma Calibrator Number	GRC38	
Mud Density	1.06	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 MCG-B 39

Field Calibration on 10-DEC-2013 12:19

	Measured	Calibrated (mV)
Reference 1	102.6	99.9
Reference 2	-98.0	-100.0

High Resolution Temperature Calibration MCG-B 39

Field Calibration on 10-DEC-2013,12:16

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-B 39

Last Edited on 10-DEC-2013,12:16

Pre-filter Length 11

Caliper Calibration MML-A 3

Base Calibration on 09-DEC-2013 09:05

Field Calibration on 10-DEC-2013 12:15

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14859	5.98
2	17988	7.97
3	21262	9.86
4	25136	11.92
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.96	7.97

Micro Normal and Micro Inverse Calibration MML-A 3

Base Calibration on 09-DEC-2013 09:20

Field Check on 10-DEC-2013 12:13

Base Calibration

Channel	Measured		Calibrated (ohm-m)	
	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Micro Normal	12.2	60.2	5.0	25.0
Micro Inverse	15.7	78.4	5.0	25.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	62.9	62.9
Micro Inverse	48.2	48.2

Micro Normal and Micro Inverse Constants MML-A 3

Last Edited on 15-DEC-2013,06:55

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159
Micro Normal K Factor	1.0000
Micro Inverse K Factor	1.0000
Standoff Offset	N/A inches

Neutron Calibration MDN-A.B 66

Base Calibration on 19-NOV-2013 15:33

Field Check on 10-DEC-2013 12:29

Base Calibration

Ratio	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3066	94	3714	110
	32.484		33.764	

Field Calibrator at Base

Calibrated (cps)
1680 2433
Ratio 0.691

Field Check

Calibrated (cps)
1679 2427

Neutron Constants MDN-A.B 66

Last Edited on 15-DEC-2013,06:55

Neutron Source Id	P0204NN		
Neutron Jig Number	5824NE		
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	None		
Formation Pressure	N/A	kpsi	
Temperature Source	Constant Value		
Temperature	68.00	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-B.J 353

Base Calibration on 07-OCT-2013 09:02

Field Check on 10-DEC-2013 12:05

Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	964.2	126.8	
Base Check		281.0	
Field Check		281.1	

FE Constants MFE-B.J 353

Last Edited on 15-DEC-2013,06:55

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.	MCG External Temperature		
Stand-off	0.5	inches	

Sonic Constants MSS-C.K 330

Last Edited on 15-DEC-2013,06:55

Maximum Boundary Contrast	100.00	micro-sec/ft	
Fluid Transit Time	189.00	micro-sec/ft	
Limestone Transit Time	47.60	micro-sec/ft	
Sandstone Transit Time	55.50	micro-sec/ft	
Dolomite Transit Time	43.50	micro-sec/ft	
Sonic used for Porosities	3-4' Compensated Sonic		
Correction for Sonde Skew	Applied		
Cycle Stretch Algorithm	Applied		
MN3FT	N/A	micro-sec	
MX3FT	N/A	micro-sec	
Hunt-Raymer Constant	83.13	micro-sec/ft	

Sonde Mode	Compensated
Hole Type	Open Hole

Sonde Parameters

	Measured	Calibrated
Offset	N/A	0.0000
Free Pipe	N/A	N/A
Peak Amplitude Source		N/A

Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A

Processed Fixed Gate Parameters

Waveform Used For Processing	N/A			
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A	
N/A	N/A	N/A		
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	

Full Waveform Parameters

Use 3' Waveform to derive TR	N/A
Use 4' Waveform to derive TR	N/A
Use 5' Waveform to derive TR	N/A
Use 6' Waveform to derive TR	N/A
3' Waveform Discriminator Level	N/A mV
4' Waveform Discriminator Level	N/A mV
5' Waveform Discriminator Level	N/A mV
6' Waveform Discriminator Level	N/A mV
3' Waveform Filter	N/A
4' Waveform Filter	N/A
5' Waveform Filter	N/A
6' Waveform Filter	N/A
Semblance Level	N/A
Semblance Window Width	N/A micro-sec
Sonic 1 Despiker	N/A N/A
Sonic 2 Despiker	N/A N/A

Induction Calibration MAI-A.A 167

Base Calibration on 02-OCT-2013,14:21
Field Check on 10-DEC-2013 12:01

Base Calibration

Test Loop Calibration Channel	Measured		Calibrated (mmho/m)	
	Low	High	Low	High
1	17.3	474.2	9.3	966.2
2	6.3	388.4	7.6	821.4
3	3.3	259.4	5.2	566.0
4	1.9	133.0	2.6	279.2

Array Temperature 76.8 Deg F

Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1			12.3	3841.9
2			29.4	3478.8
3			29.1	3054.3
4			19.8	2082.7
Deep			18.6	2049.8
Medium			42.2	3992.7
Shallow			42.7	5056.9

Array Temperature 60.5 Deg F

Induction Constants MAI-A.A 167

Last Edited on 15-DEC-2013,06:55

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	8.0000		
Stand-off Fin Angle	45.00	degrees	
Stand-off Fin Width	0.5000	inches	
Borehole Corr. Rm Source	Temperature Corr		
Temp. for Rm Corr.	MCG 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-A.A 167

Field Calibration on 10-DEC-2013,12:01

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MAI-A.A 167

Last Edited on 10-DEC-2013,12:01

Pre-filter Length	11
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Photo Density Calibration MPD-C.A 216

Base Calibration on 04-NOV-2013,14:26

Field Check on 10-DEC-2013 12:12

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	53102	19935	52888	19096
Reference 2	25779	2814	25270	2567

Field Check at Base	1121.7	1316.5
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Field Check	1119.1	1321.1
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PE Calibration

Base Calibration	WS	Measured		Calibrated
		WH	Ratio	Ratio
Background	205	1001		
Reference 1	18282	52929	0.348	0.309
Reference 2	7413	25647	0.292	0.273

Field Check at Base	204.5	1000.7
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Field Check	200.3	998.6
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Density Constants MPD-C.A 216

Last Edited on 15-DEC-2013,06:55

Density Source Id	18235B	
Nylon Calibrator Number	DNCE528	
Aluminium Calibrator Number	DACD528	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.06	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 (m)	
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	

Caliper Calibration MPD-C.A 216

Base Calibration on 09-DEC-2013 08:48
Field Calibration on 10-DEC-2013 12:06

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	15920	3.99
2	25888	5.98
3	35856	7.97
4	45671	9.86
5	56896	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.96	7.97

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Log\FIML Natural Resources Goossen #8C-32-932\FIML Natural Resources Goossen #8C-32-932_003.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 lb OD: 2.24 in

Compact Comms Gamma
MCG-B 39 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

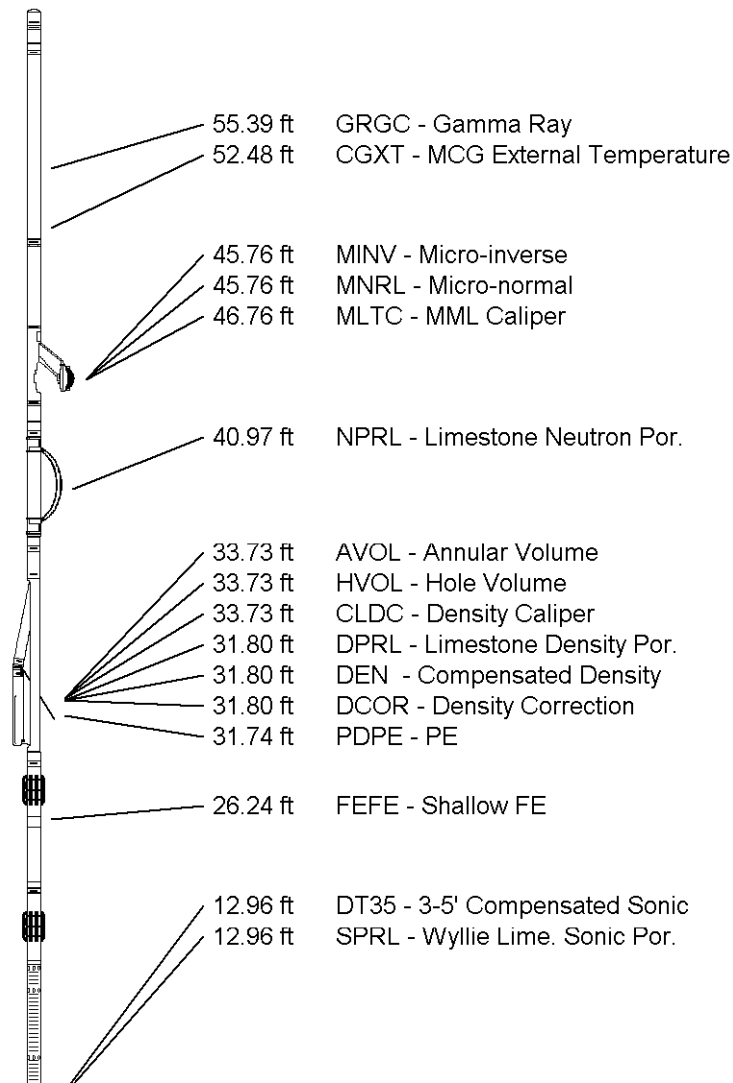
Compact Micro-log
MML-A 3 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron
MDN-A.B 66 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.A 216 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-B.J 353 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic
MSS-C.K 330 LG: 12.52 ft WT: 72.8 lb OD: 2.24 in



Compact Induction
 MAI-A.A 167 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 62.25 ft Weight: 471.8 lb



- 3.34 ft R400 - Array Ind. One Res 40
 - 3.34 ft RTAO - Array Ind. One Res Rt
 - 3.34 ft R600 - Array Ind. One Res 60
 - 0.23 ft SPCG - Spontaneous Potential
 - Tool Zero (0.13ft from bottom)
 - 0.13 ft SMTU - DST Uphole Tension
- All measurements relative to tool zero.

COMPANY	FIML NATURAL RESOURCES, LLC				
WELL	GOOSSEN #8C-32-932				
FIELD	WILDCAT				
PROVINCE/COUNTY	THOMAS				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	3119.00	feet	First Reading	4920.00	feet
Elevation Drill Floor	3117.00	feet	Depth Driller	4950.00	feet
Elevation Ground Level	3109.00	feet	Depth Logger	4952.00	feet



Weatherford[®]

COMPACT PHOTO DENSITY
 COMPENSATED NEUTRON
 MICRORESISTIVITY LOG



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 140349
Invoice Date: Dec 16, 2013
Page: 1

Now Includes:

Bill To:
FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Customer ID	Field Ticket #	Payment Terms	
FIML	62107	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Dec 16, 2013	1/15/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Goossen #8C-32-932		
132.00	CEMENT MATERIALS	Class A Common	17.90	2,362.80
88.00	CEMENT MATERIALS	Pozmix	9.35	822.80
8.00	CEMENT MATERIALS	Gel	23.40	187.20
55.00	CEMENT MATERIALS	Flo Seal	2.97	163.35
236.28	CEMENT SERVICE	Cubic Feet Charge	2.48	585.97
98.70	CEMENT SERVICE	Ton Mileage Charge	2.60	256.62
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
10.00	CEMENT SERVICE	Pump Truck Mileage	7.70	77.00
10.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	44.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.64	107.64
1.00	JOB DISCOUNT	Job Discount if paid by terms	1,630.92	-1,630.92
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Kelly Gabel		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$

ONLY IF PAID ON OR BEFORE
Jan 10, 2014

Subtotal	5,460.05
Sales Tax	507.02
Total Invoice Amount	5,967.07
Payment/Credit Applied	
TOTAL	5,967.07