



Weatherford[®]

**COMPACT PHOTO DENSITY
COMPENSATED NEUTRON
MICRORESISTIVITY LOG**

COMPANY MCCOY PETROLEUM CORP.
WELL RICHARDSON TRUST #1-15 'A'
FIELD WILDCAT
PROVINCE/COUNTY GRAY
COUNTRY/STATE U.S.A. / KANSAS
LOCATION 2310' FNL & 2010' FWL

SEC TWP RGE Other Services
15 27S 29W MA/IMFE
API Number 15-069-20414
Permit Number

Permanent Datum GL, Elevation 2741 feet
Log Measured From KB Elevations: KB 2754.00
Drilling Measured From KB DF 2752.00
GL 2741.00

Date	26-NOV-2012
Run Number	ONE
Service Order	3537783
Depth Driller	5150.00 feet
Depth Logger	5151.00 feet
First Reading	5132.00 feet
Last Reading	2500.00 feet
Casing Driller	1837.00 feet
Casing Logger	1833.00 inches
Bit Size	7.875
Hole Fluid Type	CHEMICAL lb/USg
Density / Viscosity	8.95 lb/USg 65.00 CP
PH / Fluid Loss	9.00 9.00
Sample Source	FLOWLINE
Rm @ Measured Temp	1.42 @ 84.0 ohm-m
Rmf @ Measured Temp	1.14 @ 84.0 ohm-m
Rmc @ Measured Temp	1.70 @ 84.0 ohm-m
Source Rmf / Rmc	CALC CALC
Rm @ BHT	1.11 @109.0 ohm-m
Time Since Circulation	4 HOURS
Max Recorded Temp	109.00 deg F
Equipment / Base	13096 LIB
Recorded By	ADAM SILL
Witnessed By	EVAN STONE
JOB #	LB12-309

BOREHOLE RECORD Last Edited: 26-NOV-2012 07:10

Bit Size inches	Depth From feet	Depth To feet
7.875	1837.00	5150.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1837.00	24.00

REMARKS

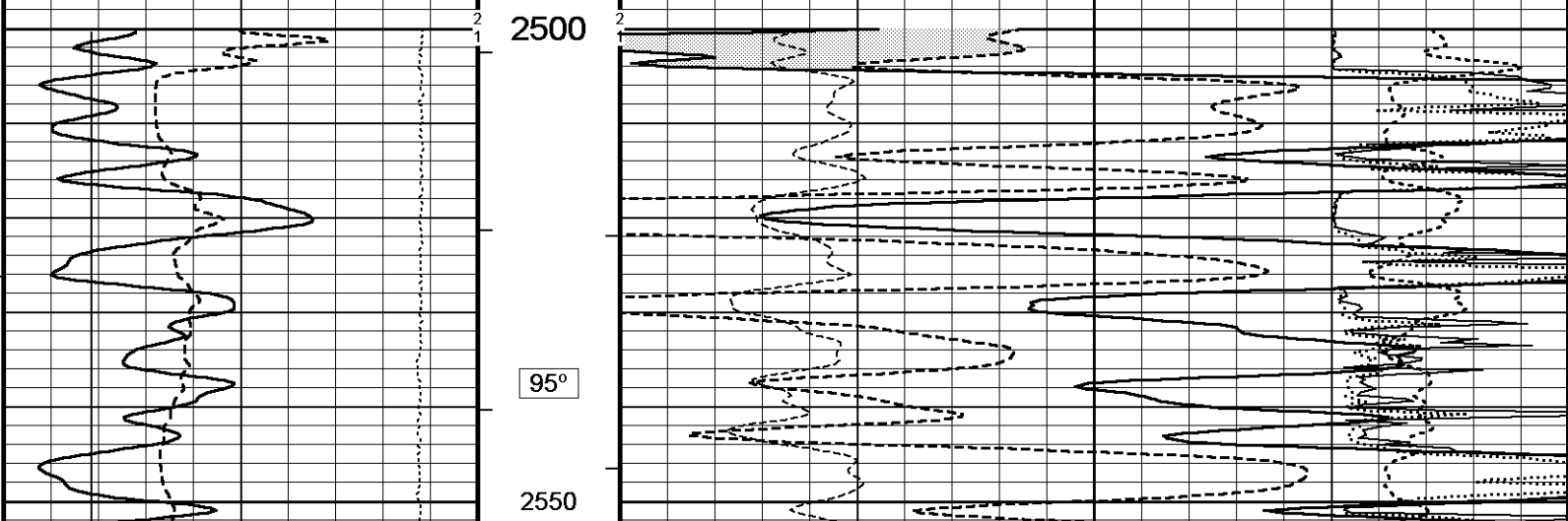
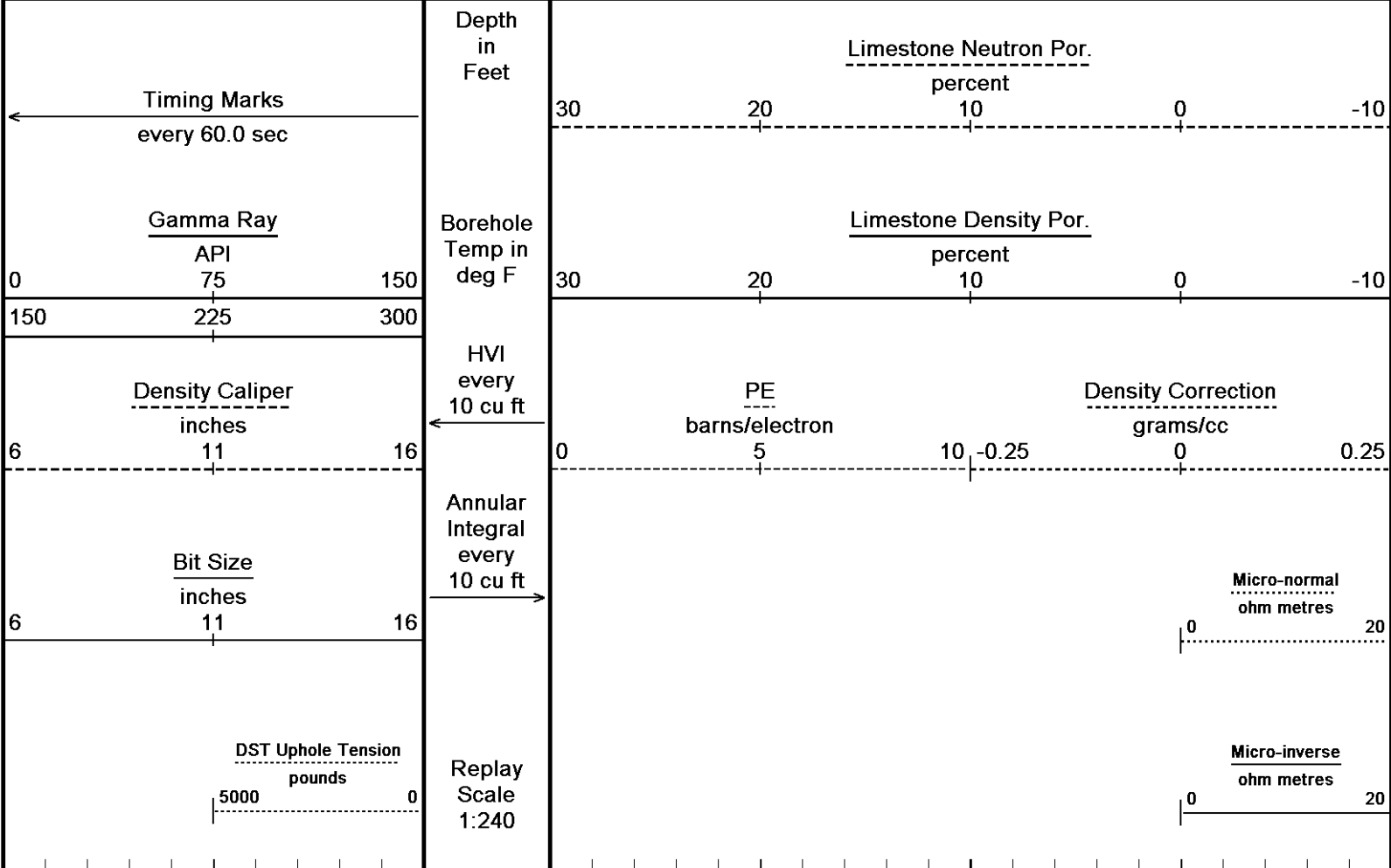
- SOFTWARE ISSUE: WLS 13.04.8492.
- MCG, MML, MDN, MPD, MFE, MAI RAN IN COMBINATION.
 - HARDWARE: DUAL BOWSPRING USED ON MDN.
 - 0.5 INCH STANDOFF USED ON MFE.
 - 0.5 INCH STANDOFF USED ON MAI.
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY.
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY.
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.
- TOTAL HOLE VOLUME FROM TD TO SURFACE CASING: 1390 CU. FT.
- ANNULAR HOLE VOLUME WITH 4.5 INCH CASING FROM TD TO 2500 FT: 660 CU. FT.
- SERVICE ORDER # 3537783

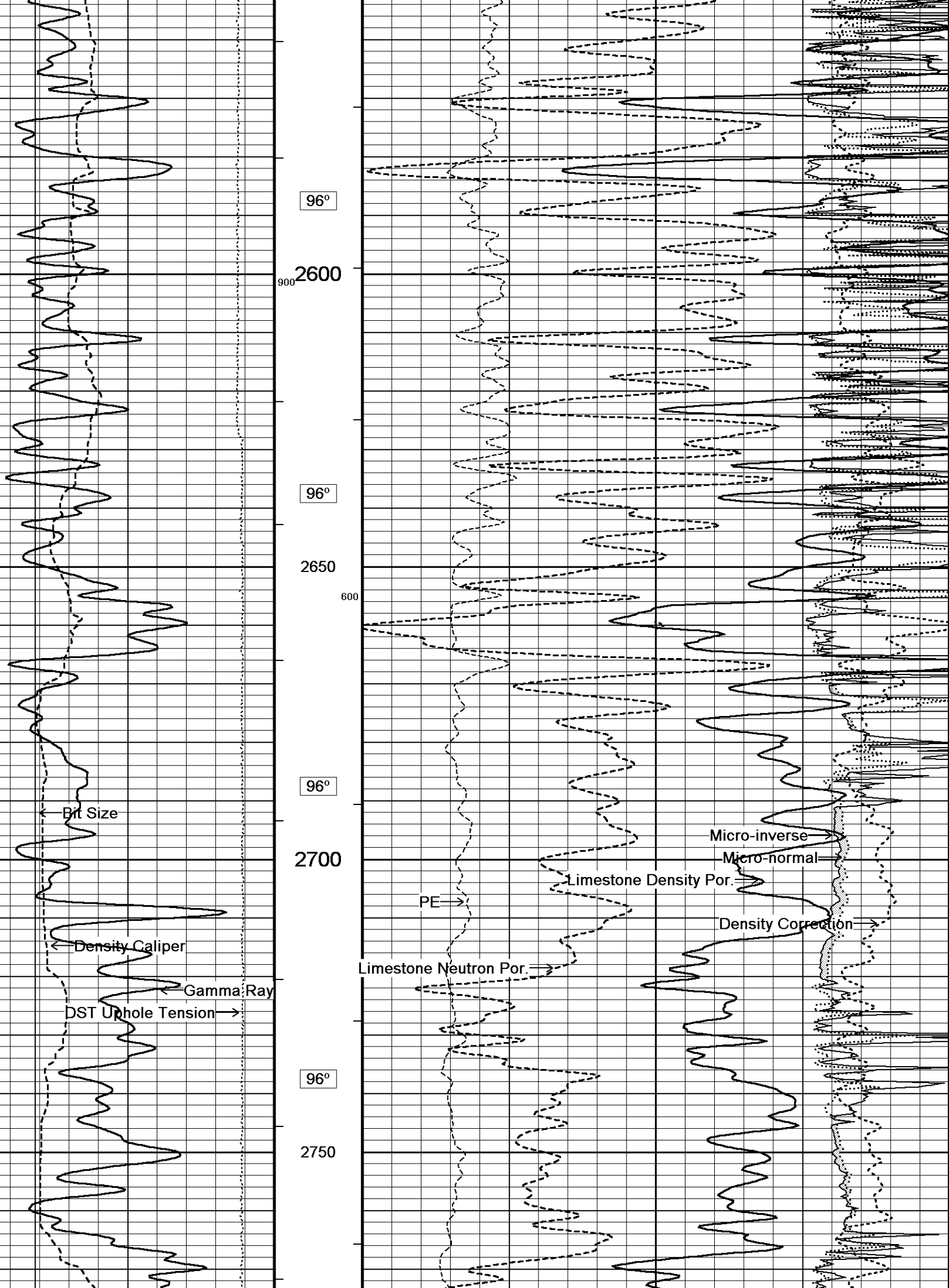
- RIG: STERLING #5.
 - ENGINEER: A. SILL.
 - OPERATOR(S): M. STEGMAN.

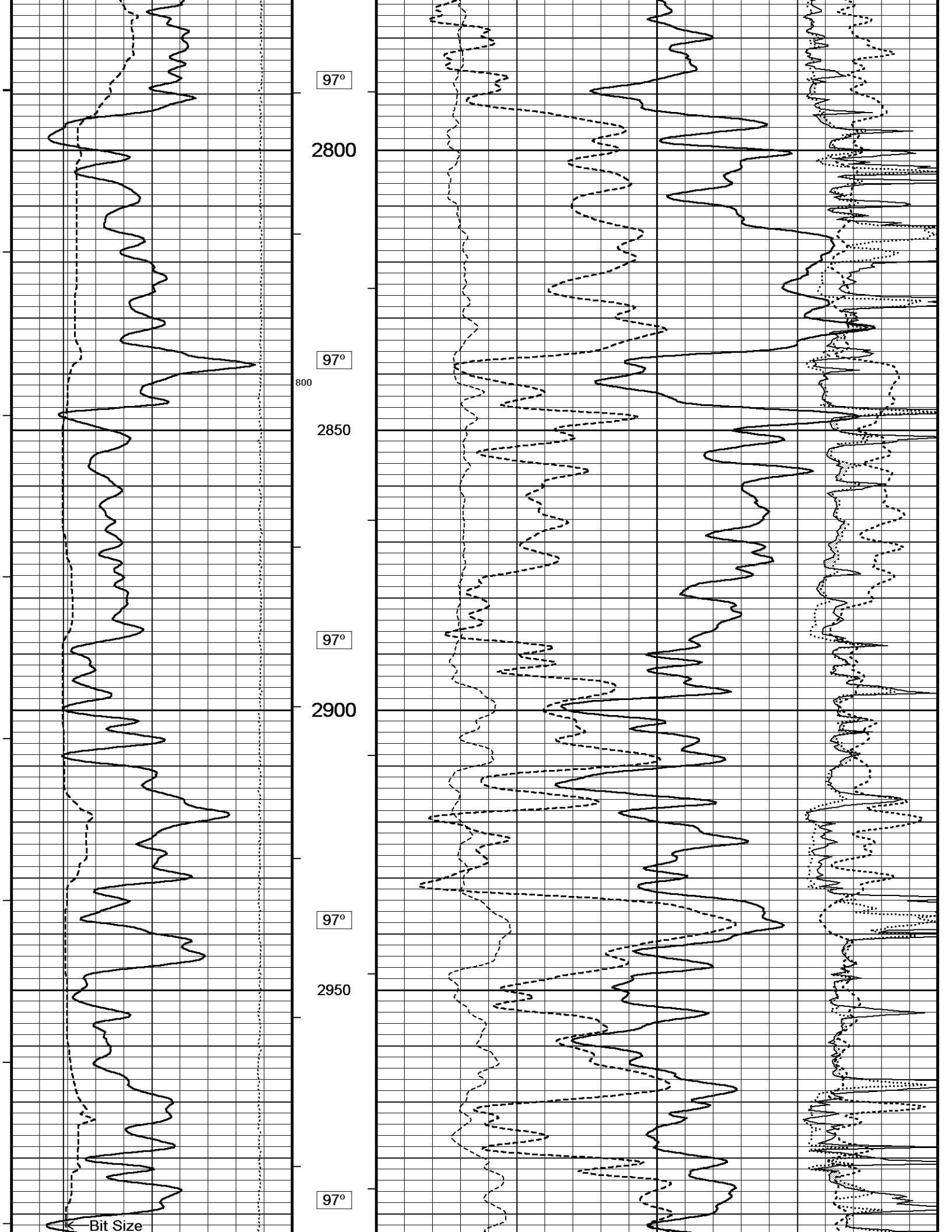
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

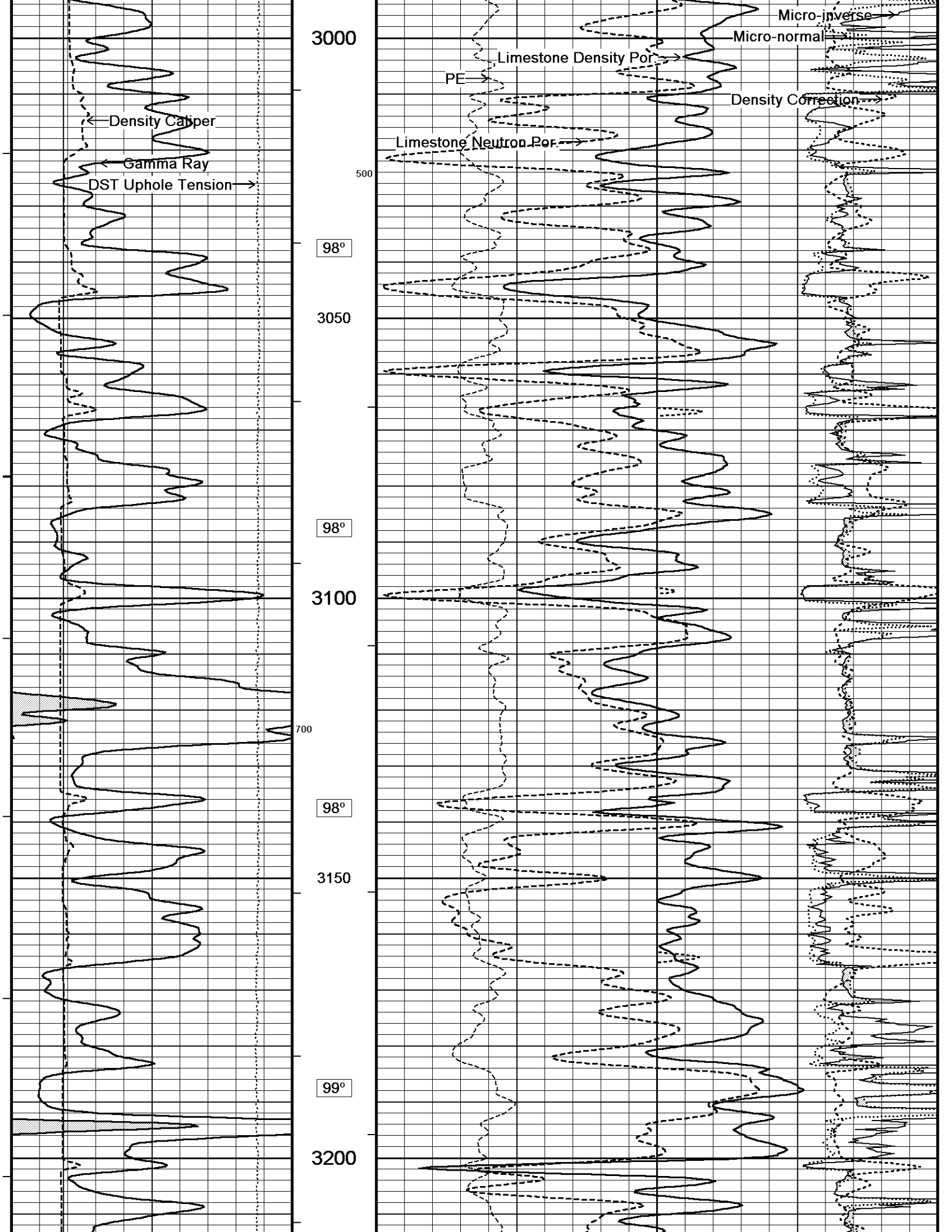
5 INCH MAIN

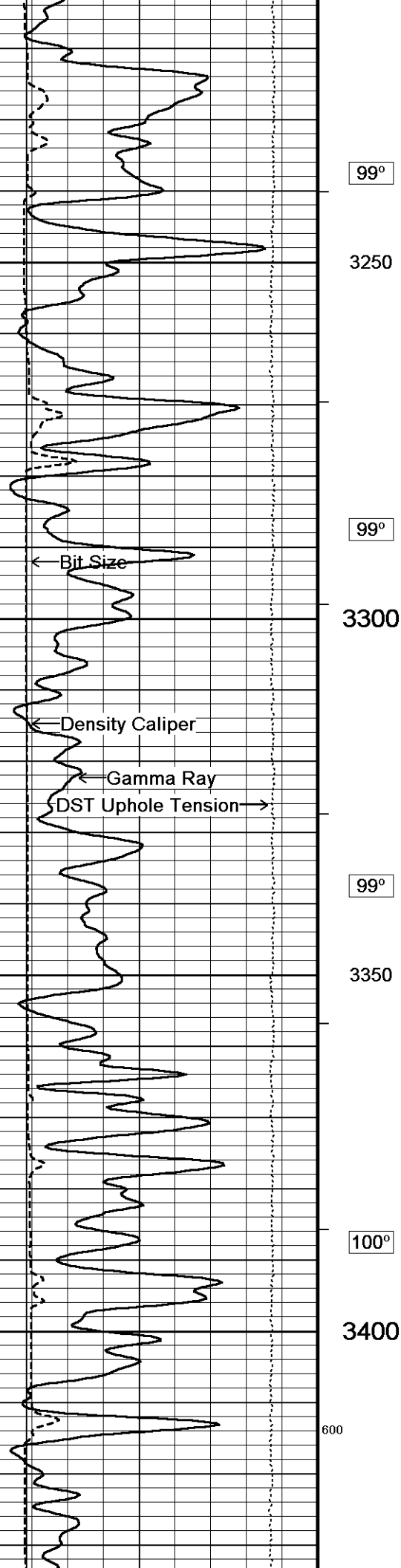
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 26-NOV-2012 14:39
 Filename: C:\Minimus 13.04.8492\Data\McCoy ...\McCoy Petroleum Richardson Trust #1-15 'A'_002.dta Recorded on 26-NOV-2012 12:29
 System Versions: Logged with 13.04.8492 Plotted with 13.04.8492











99°

3250

99°

3300

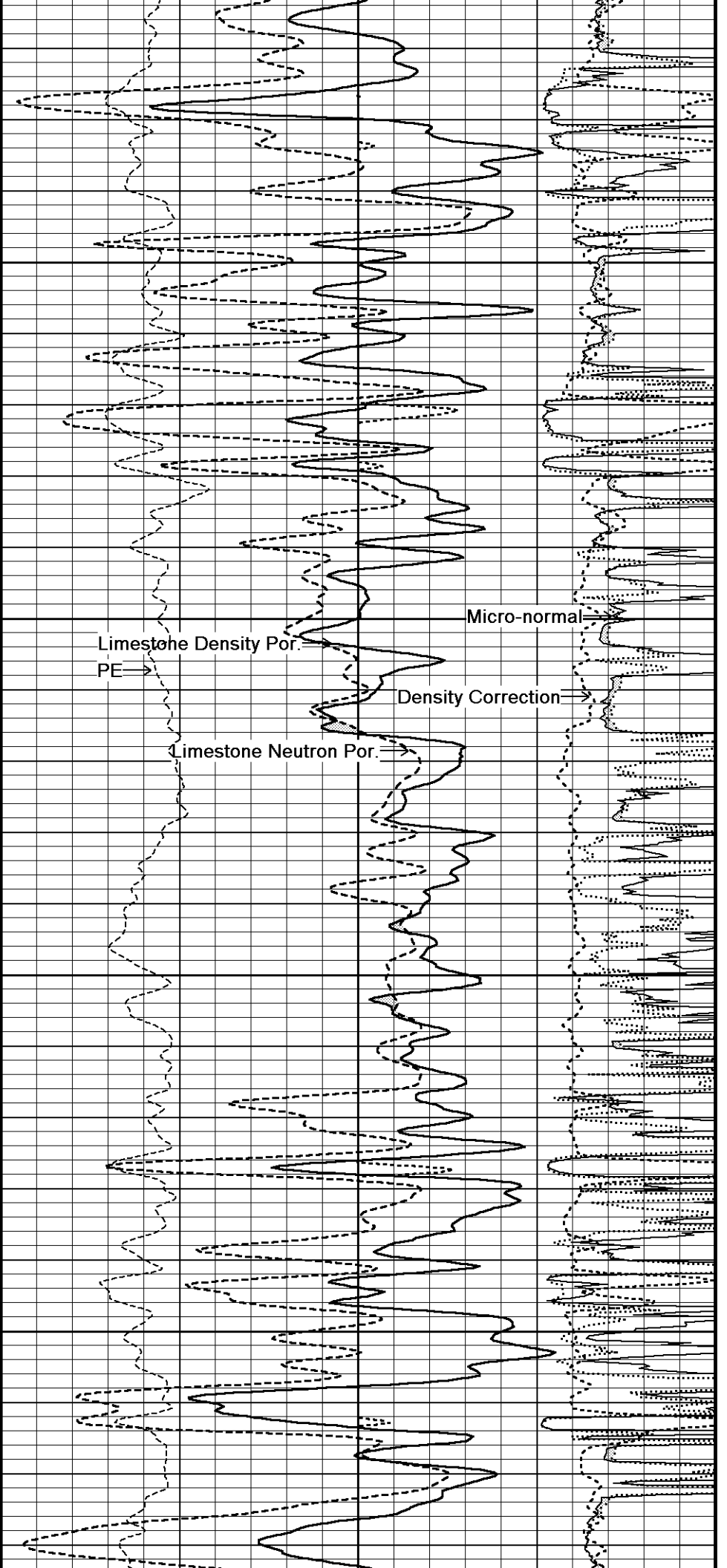
99°

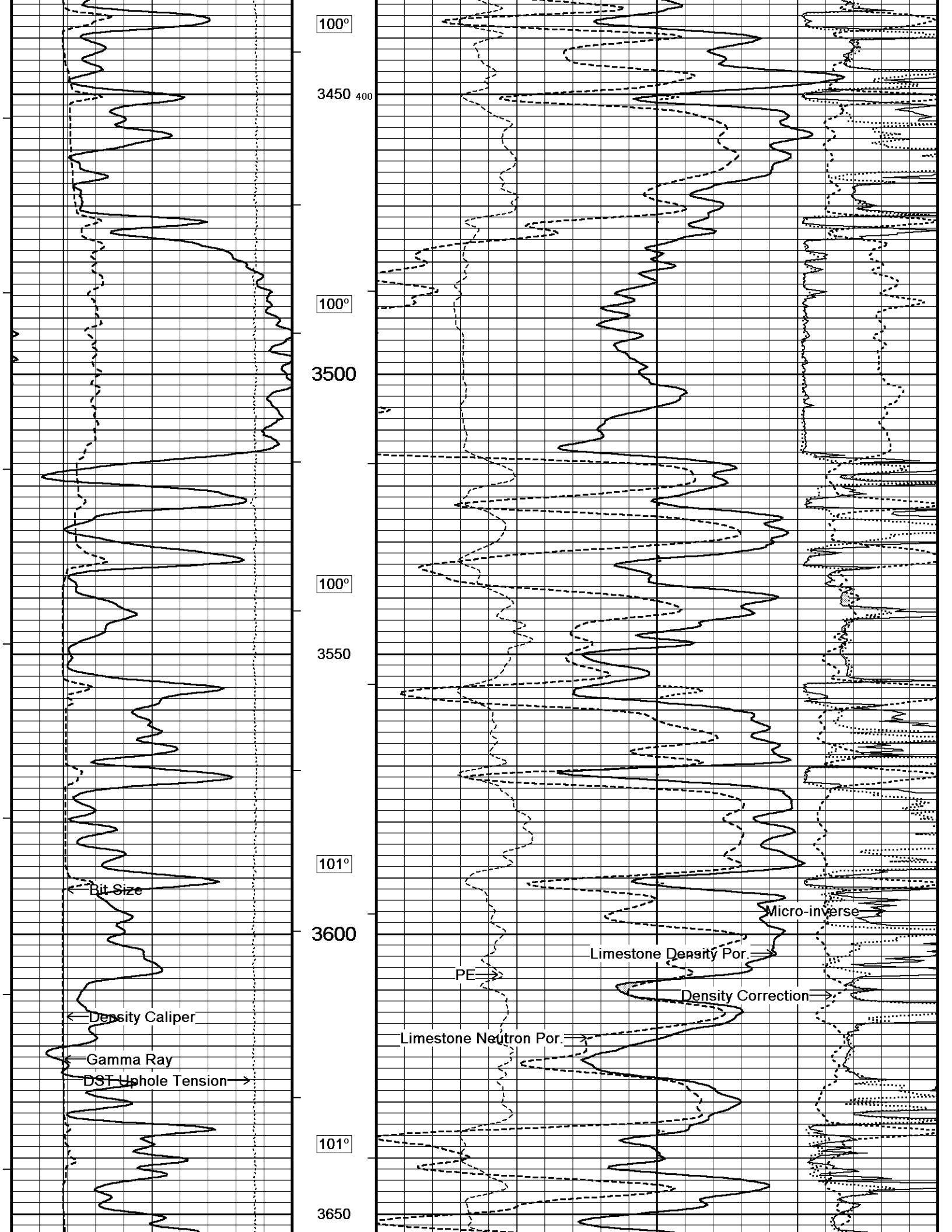
3350

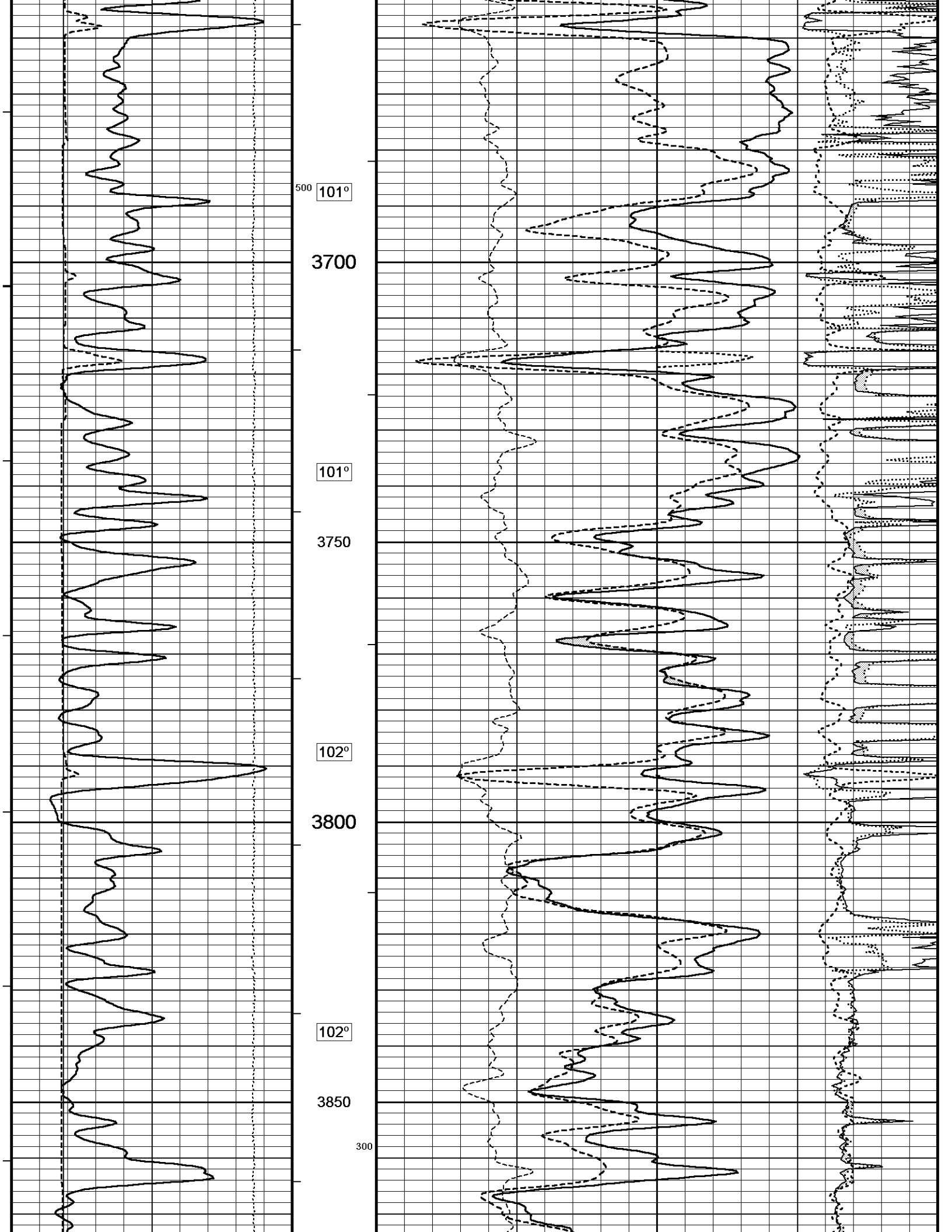
100°

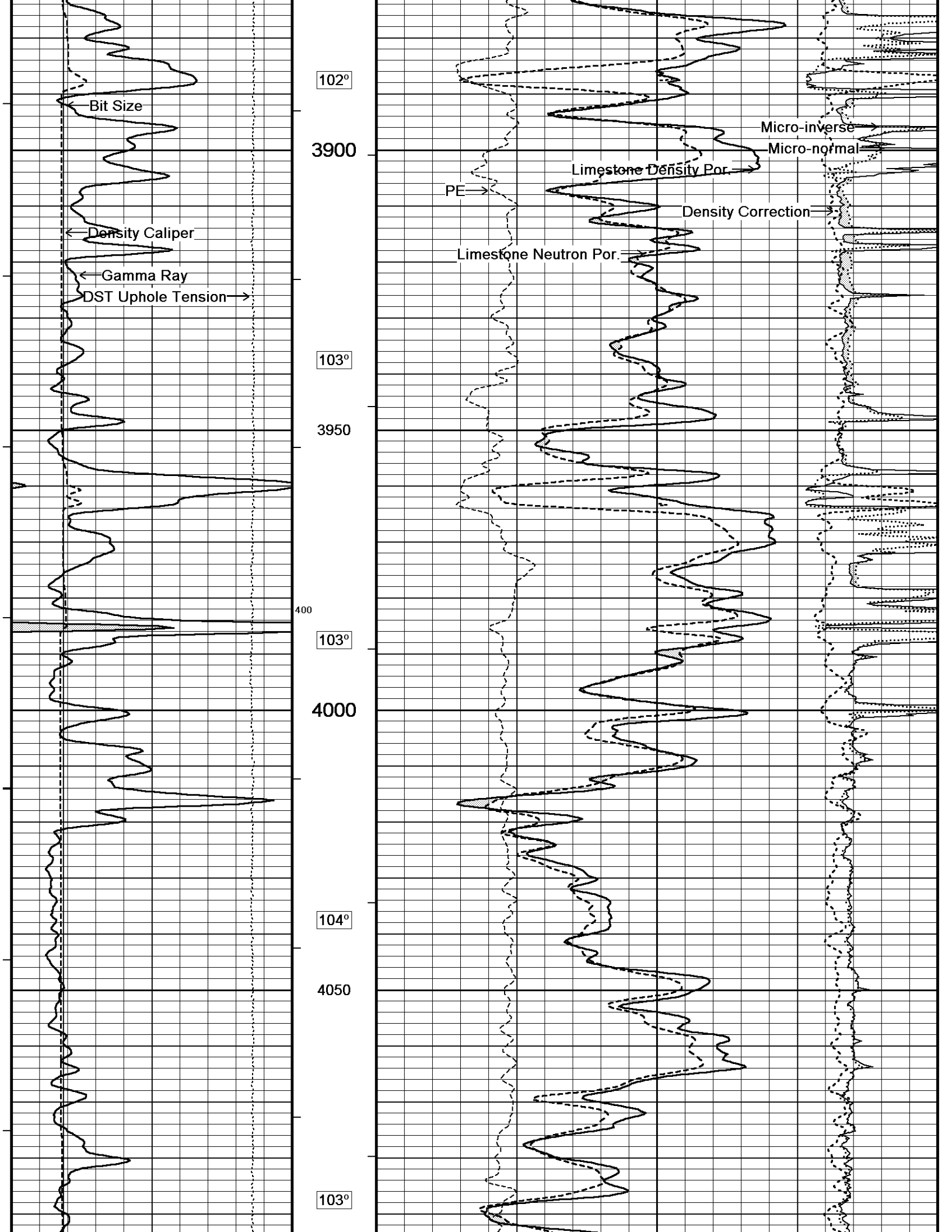
3400

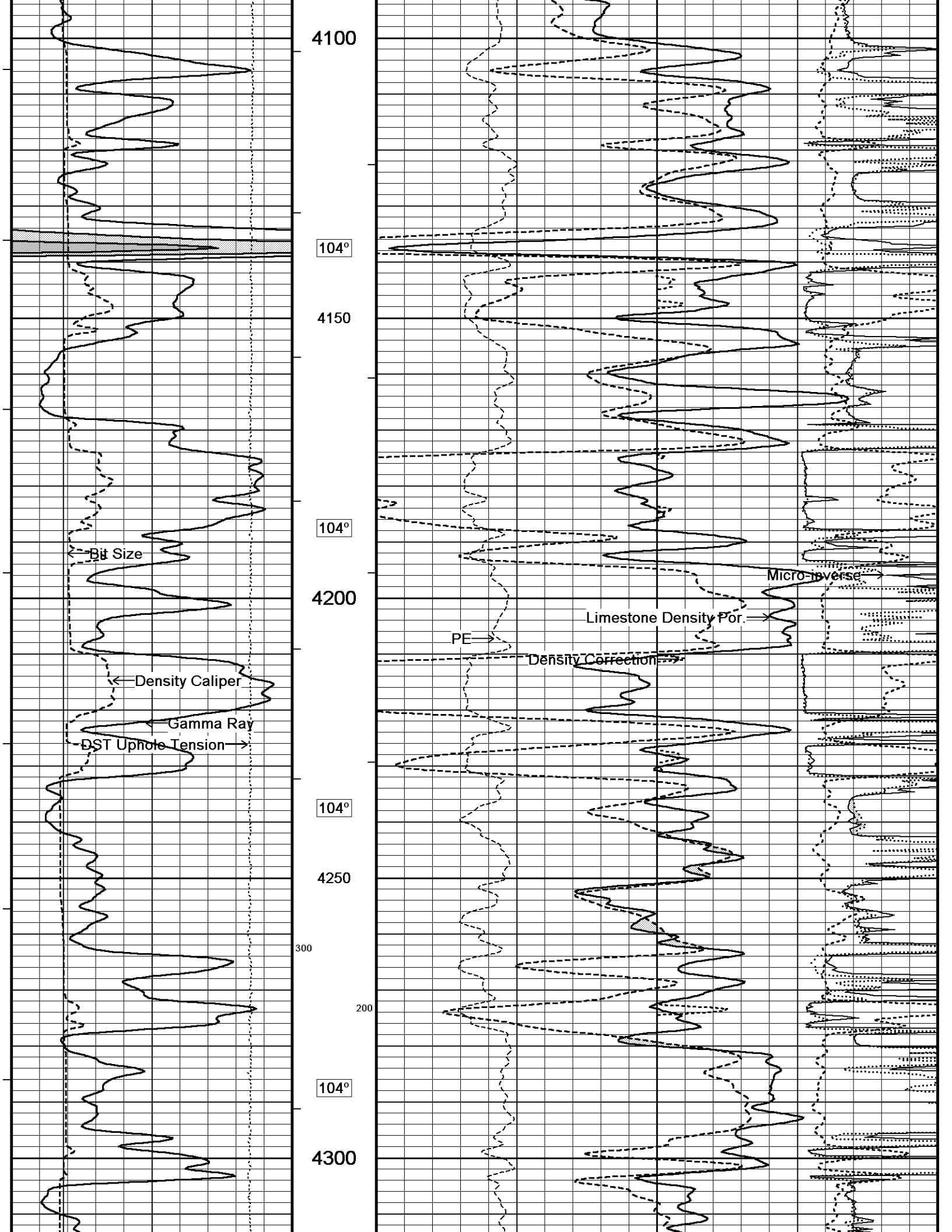
600

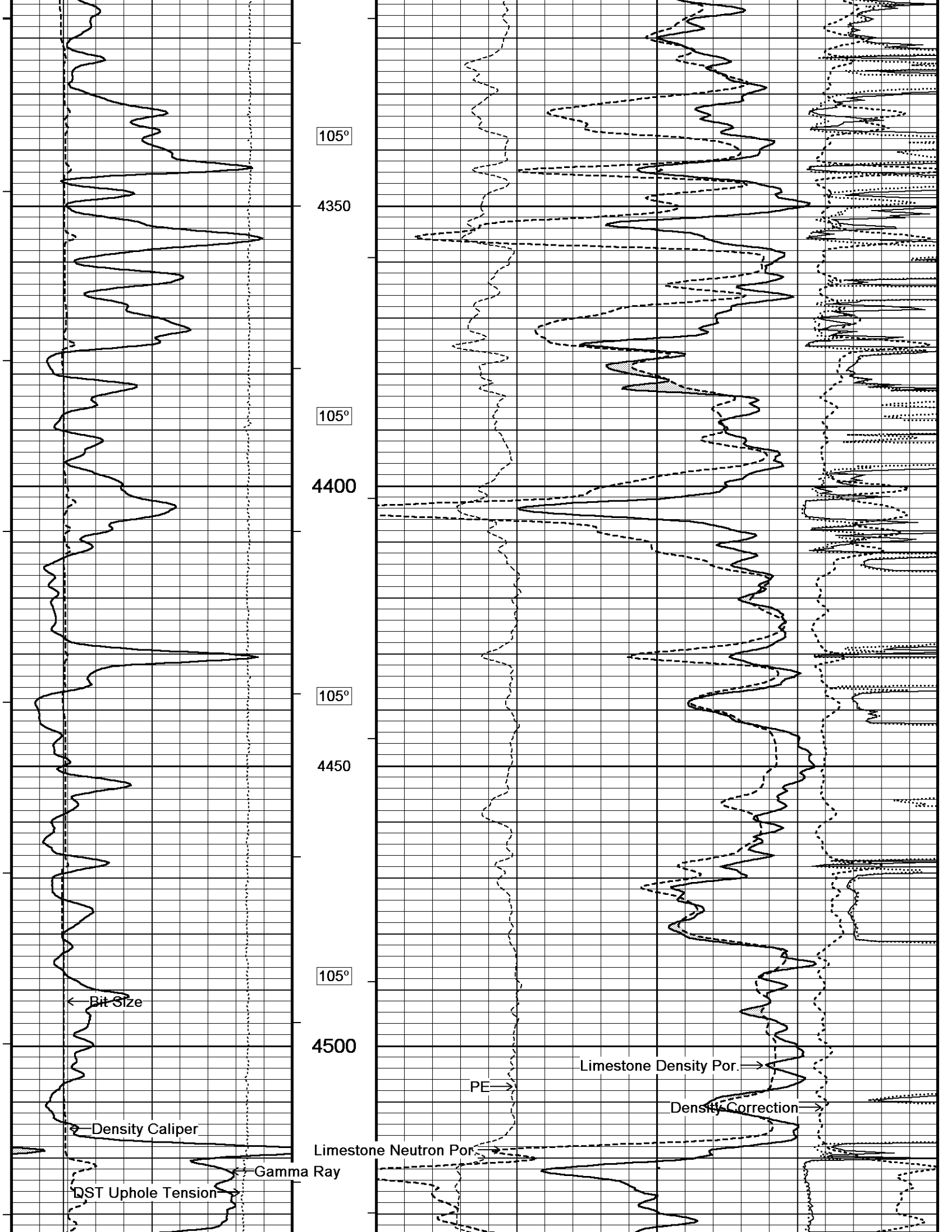


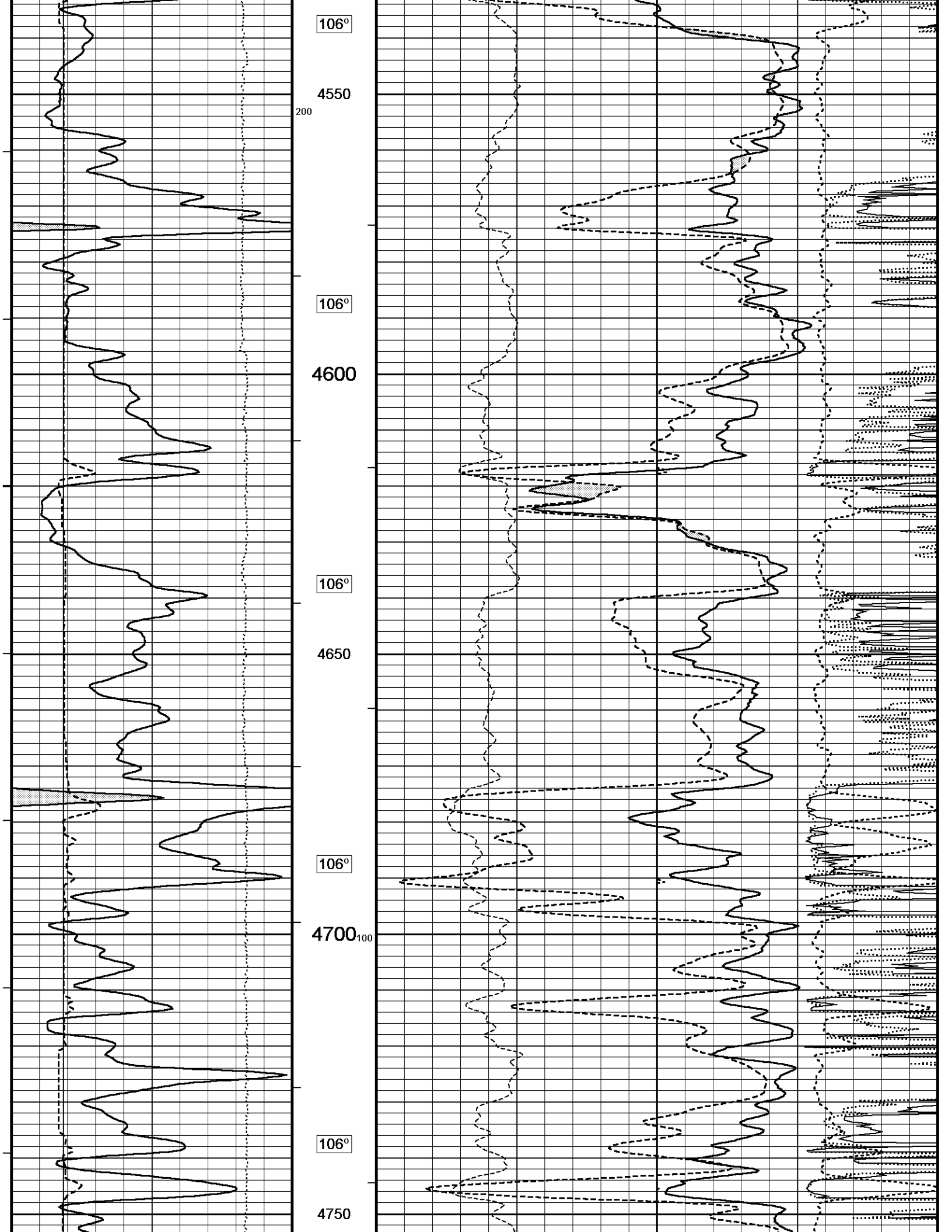


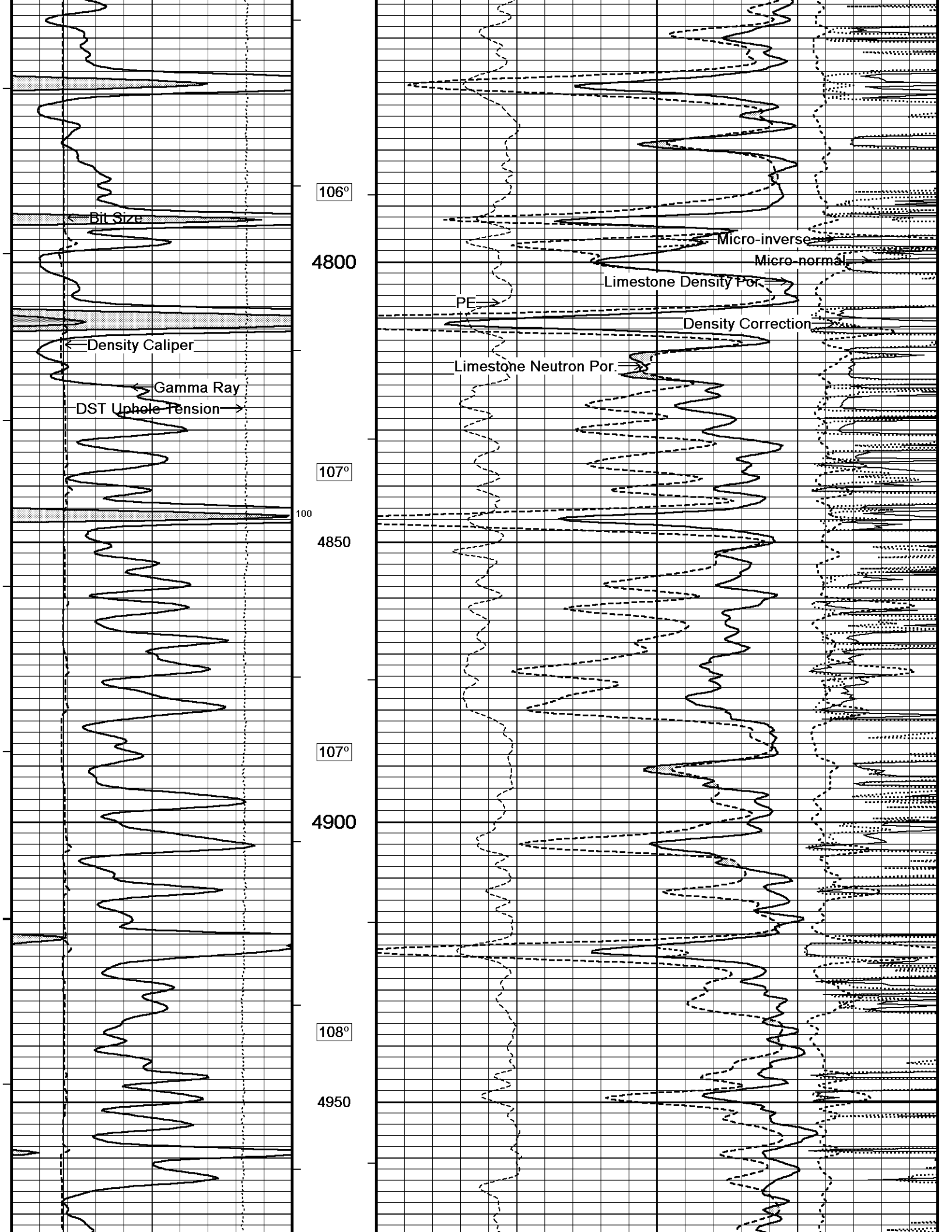


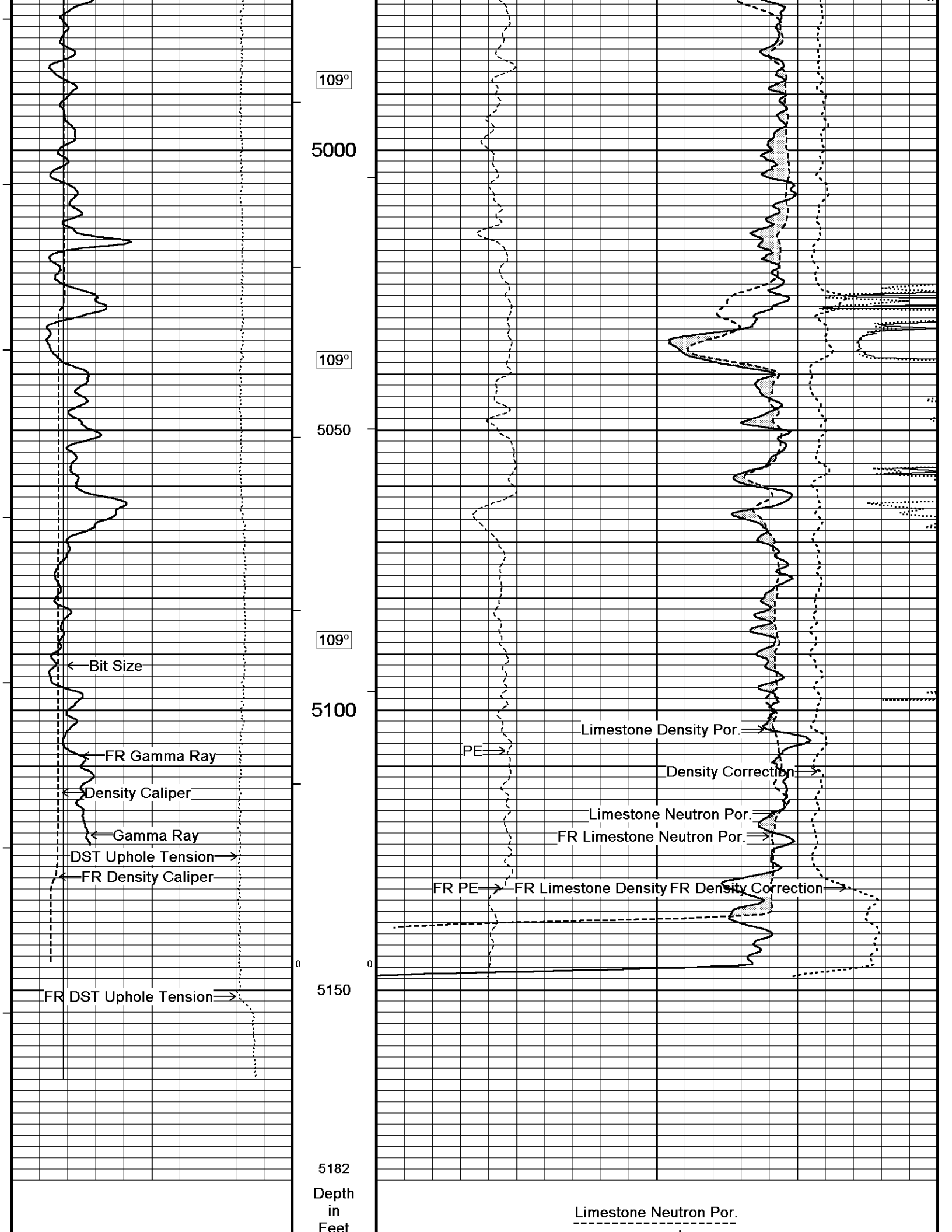


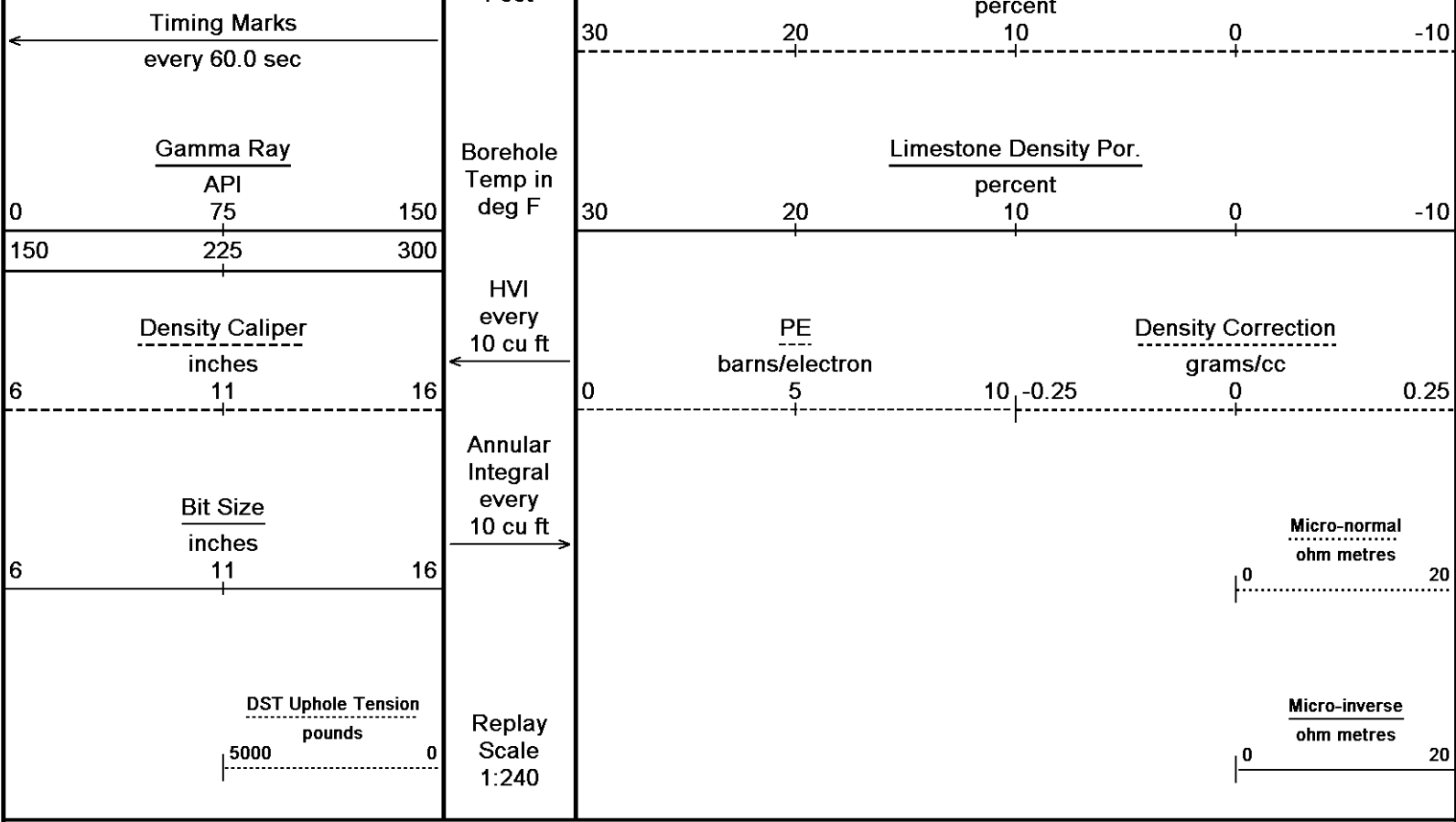










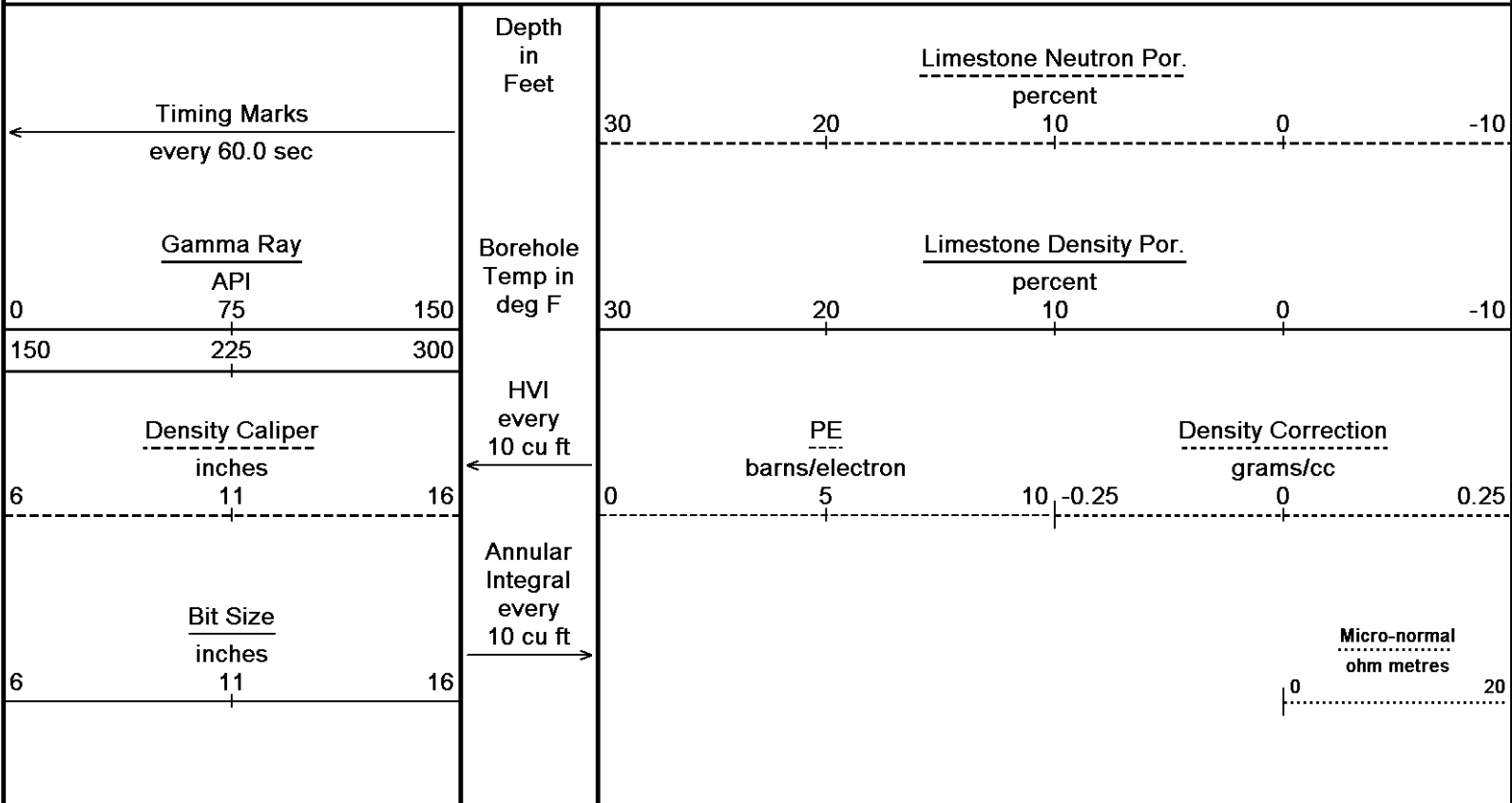


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↑ **5 INCH MAIN** ↑

↓ **REPEAT SECTION** ↓

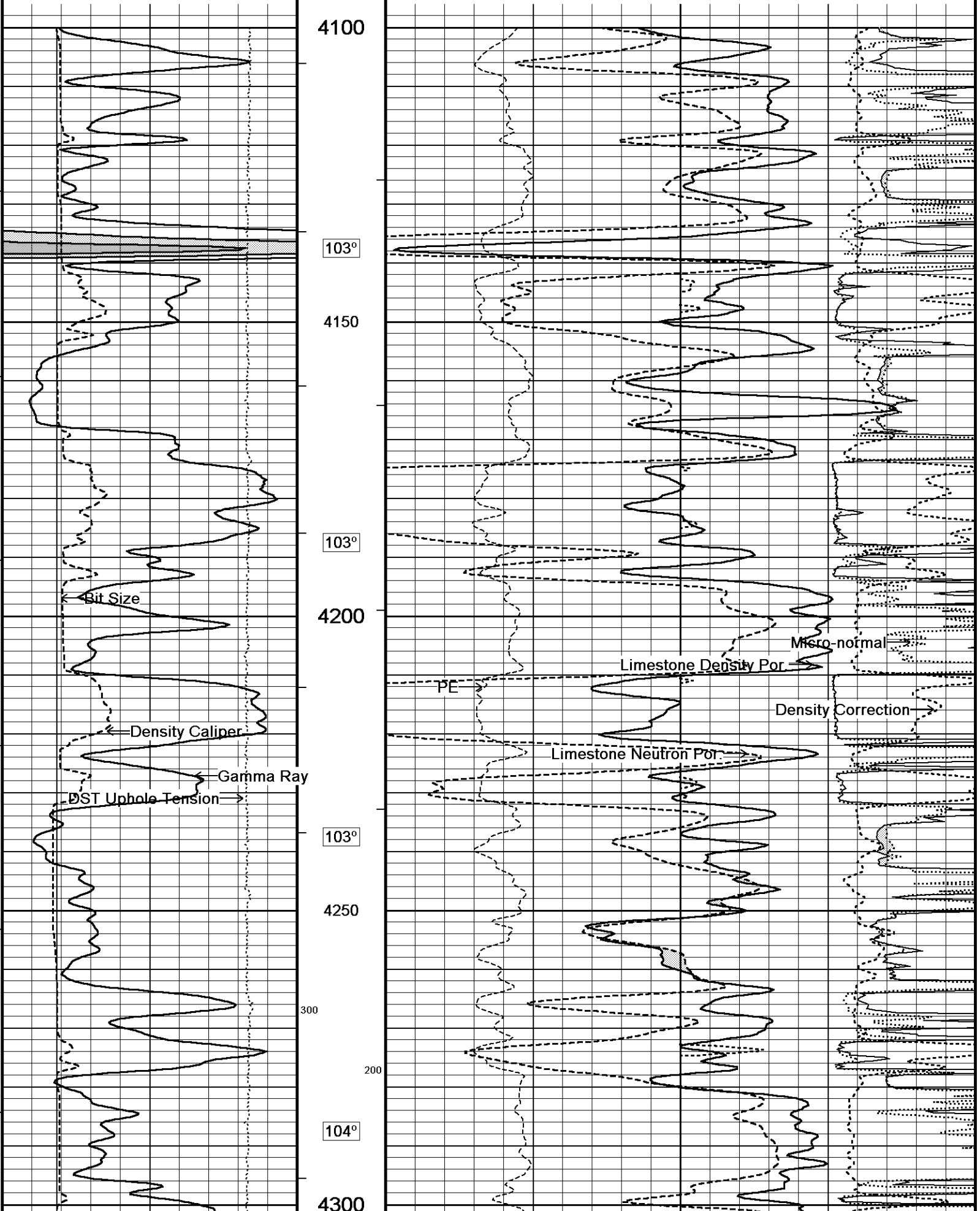
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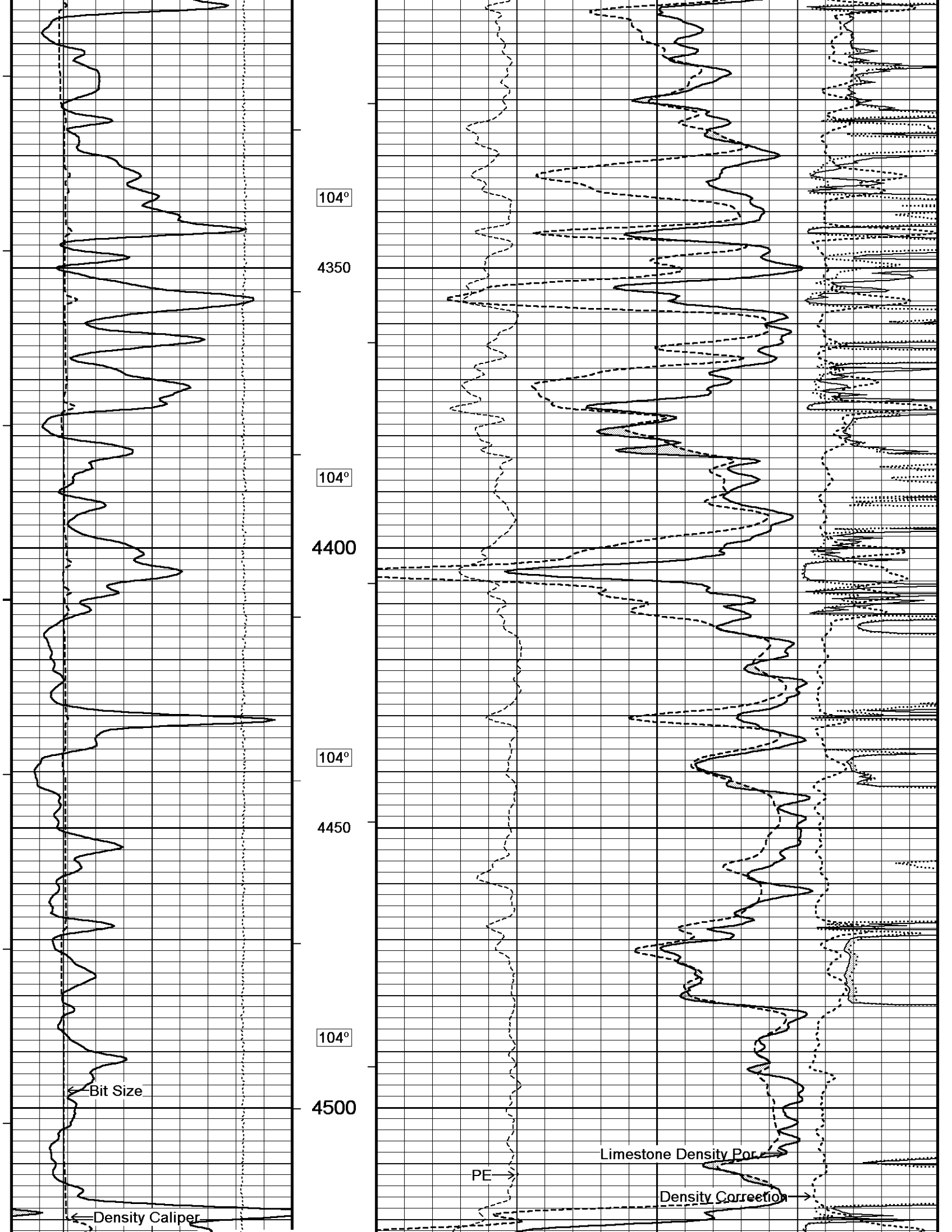


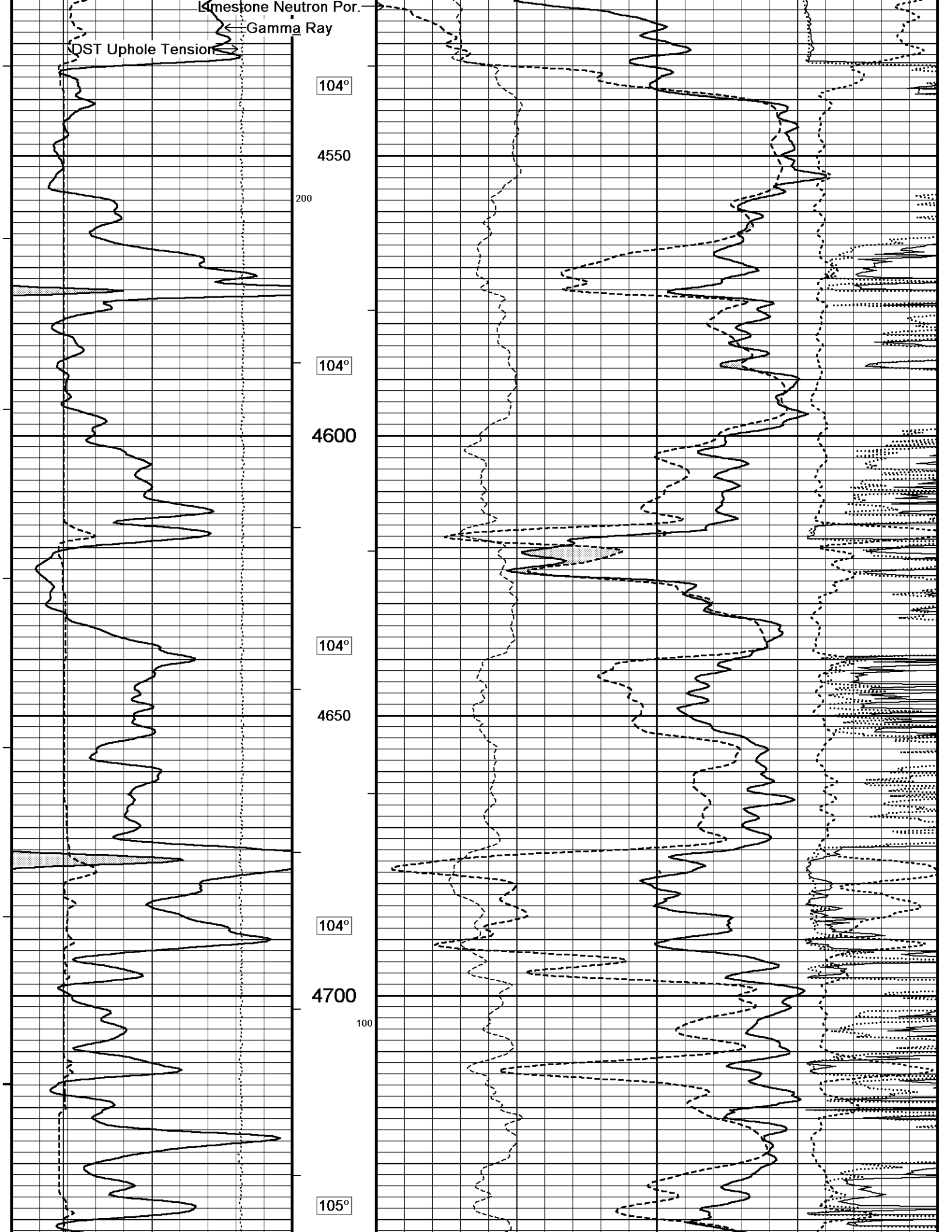
DST Uphole Tension
pounds
5000 0

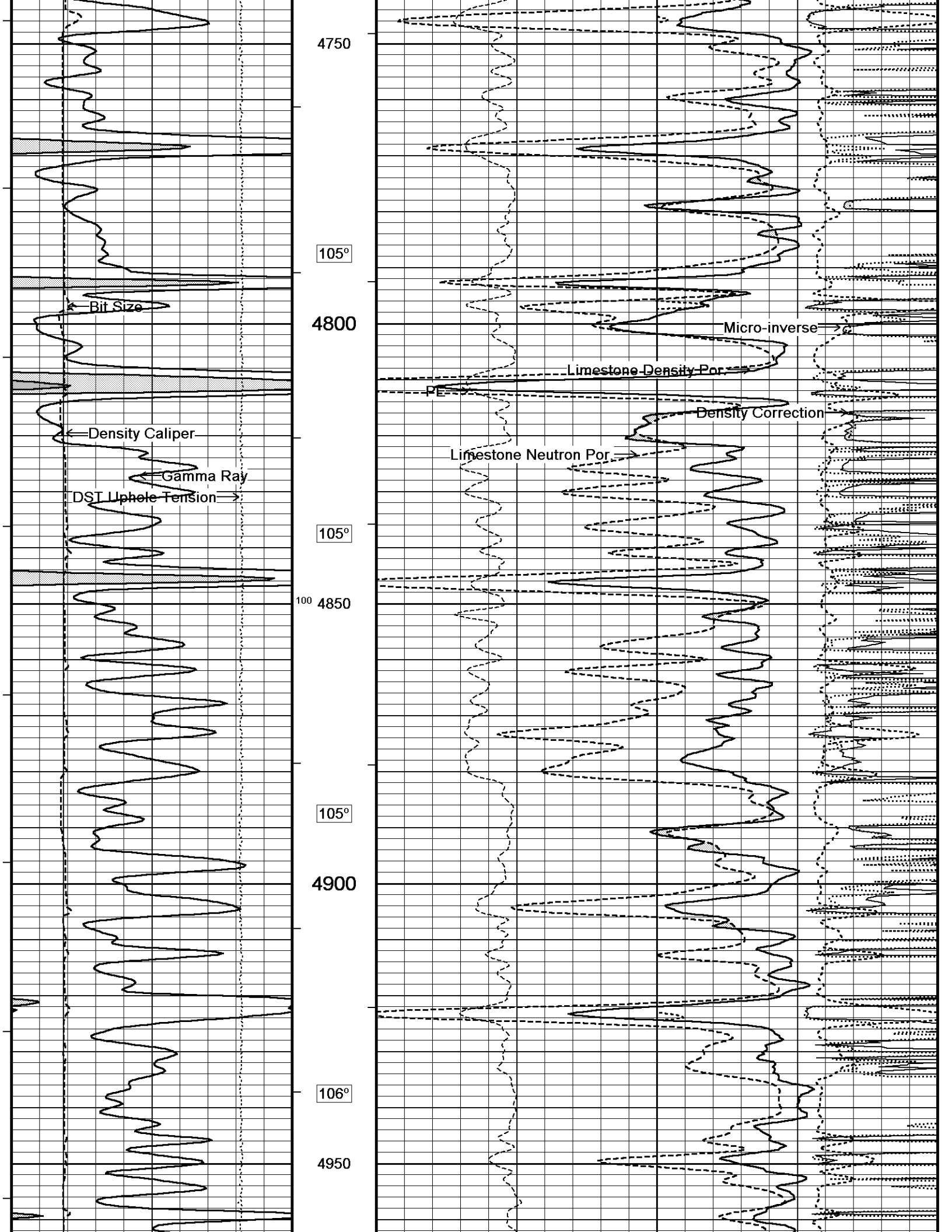
Replay
Scale
1:240

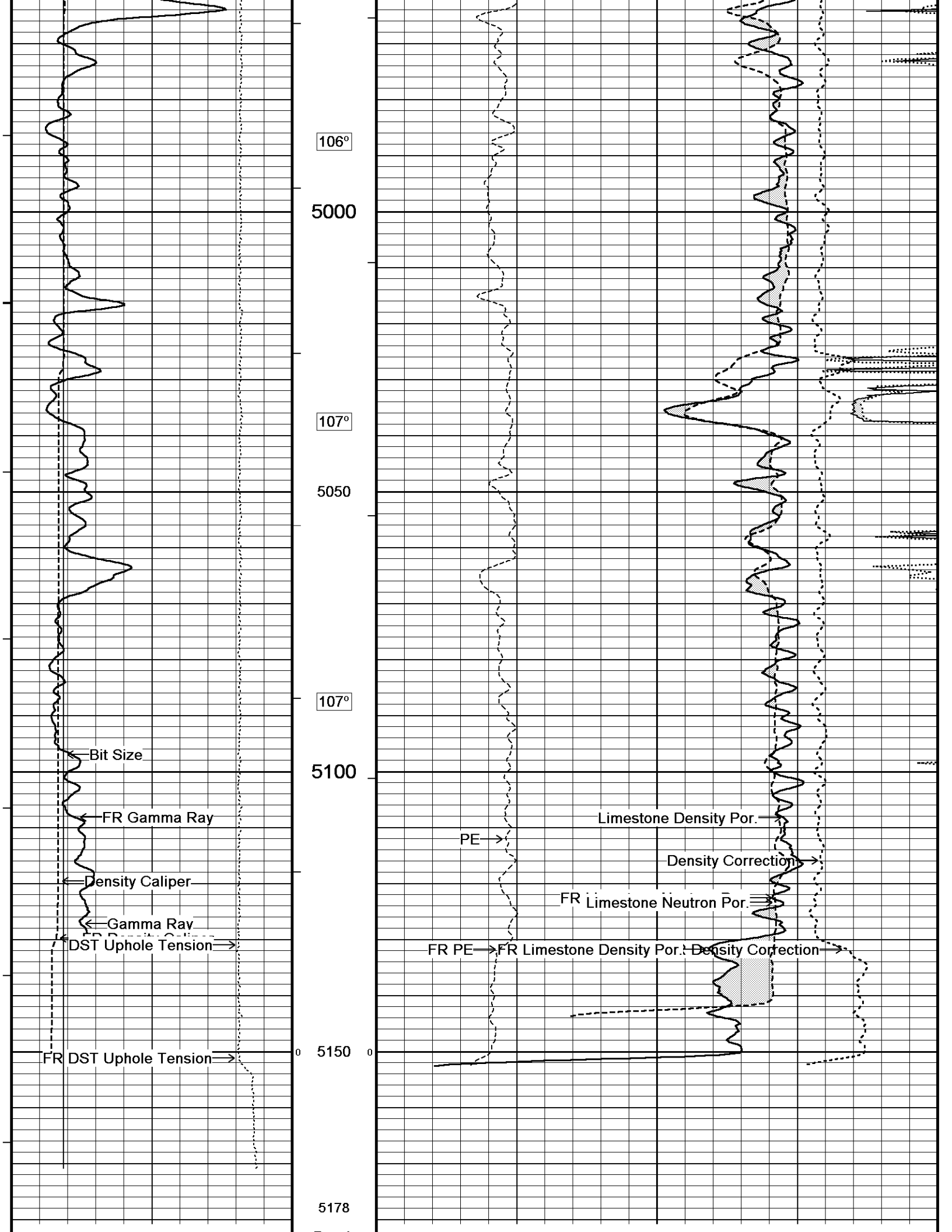
Micro-inverse
ohm metres
0 20

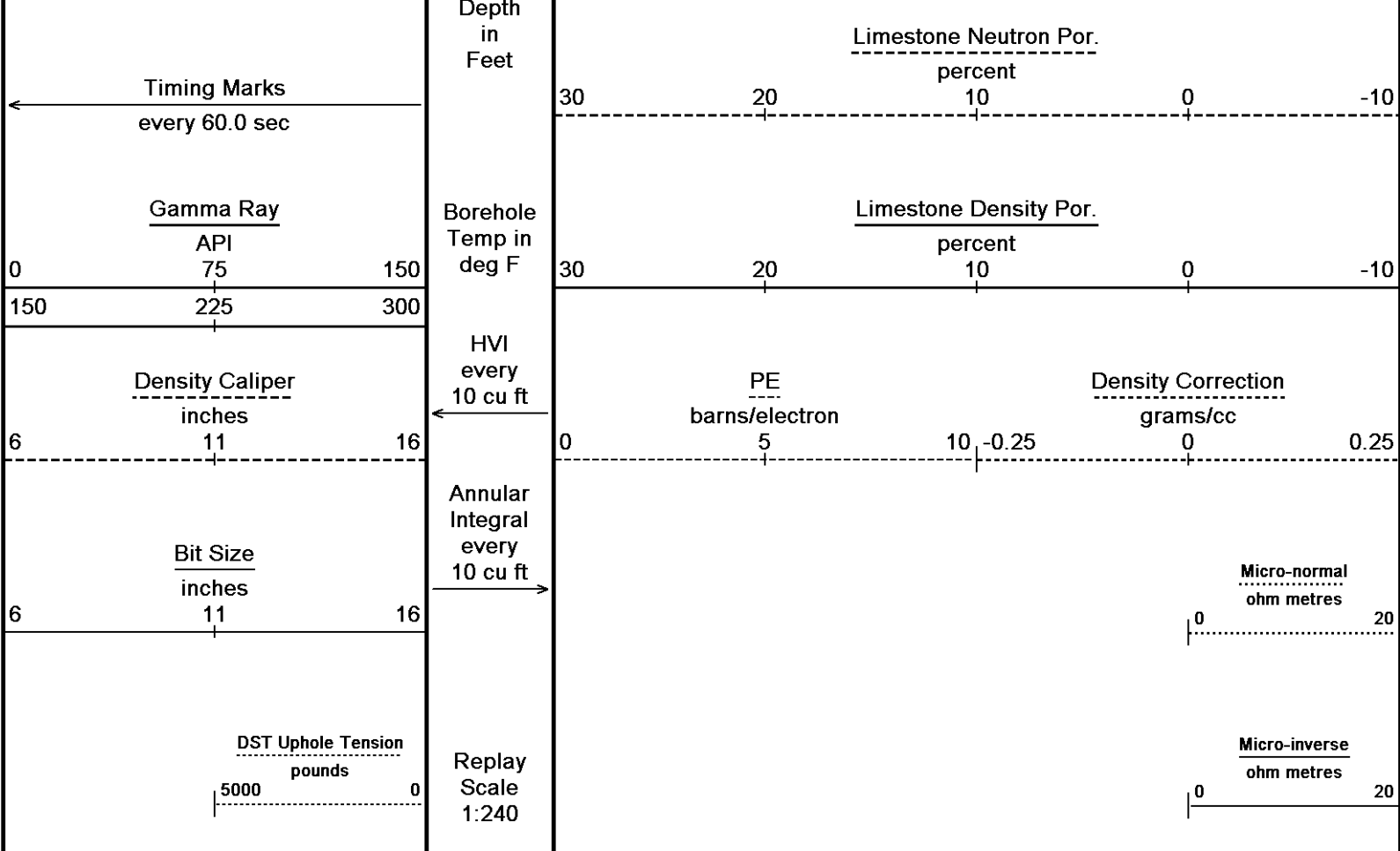










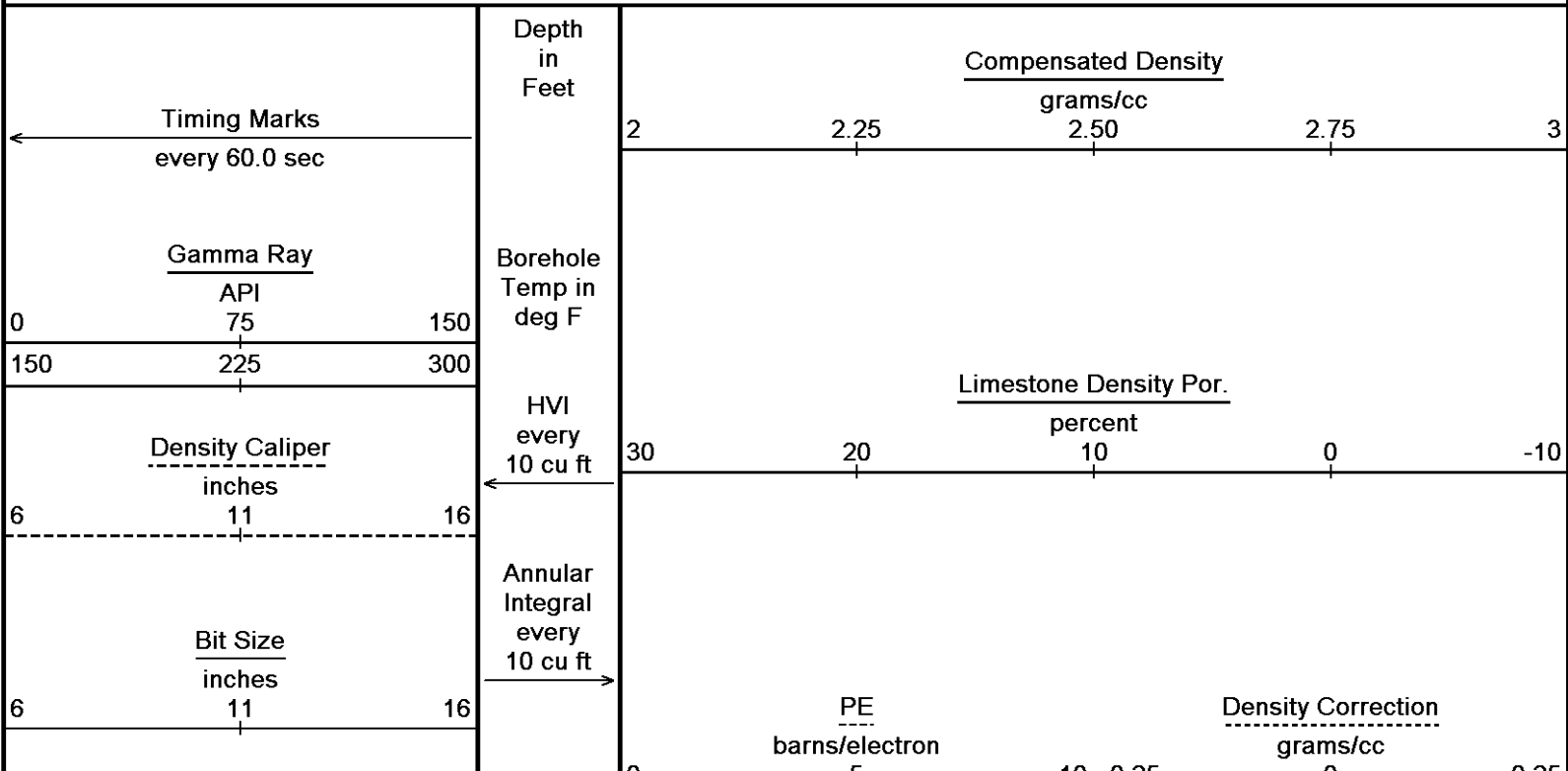


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↑ REPEAT SECTION ↑

↓ 5 INCH MAIN ↓

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DST Uphole Tension
pounds
5000 0

Replay
Scale
1:240

2500

95°

2550

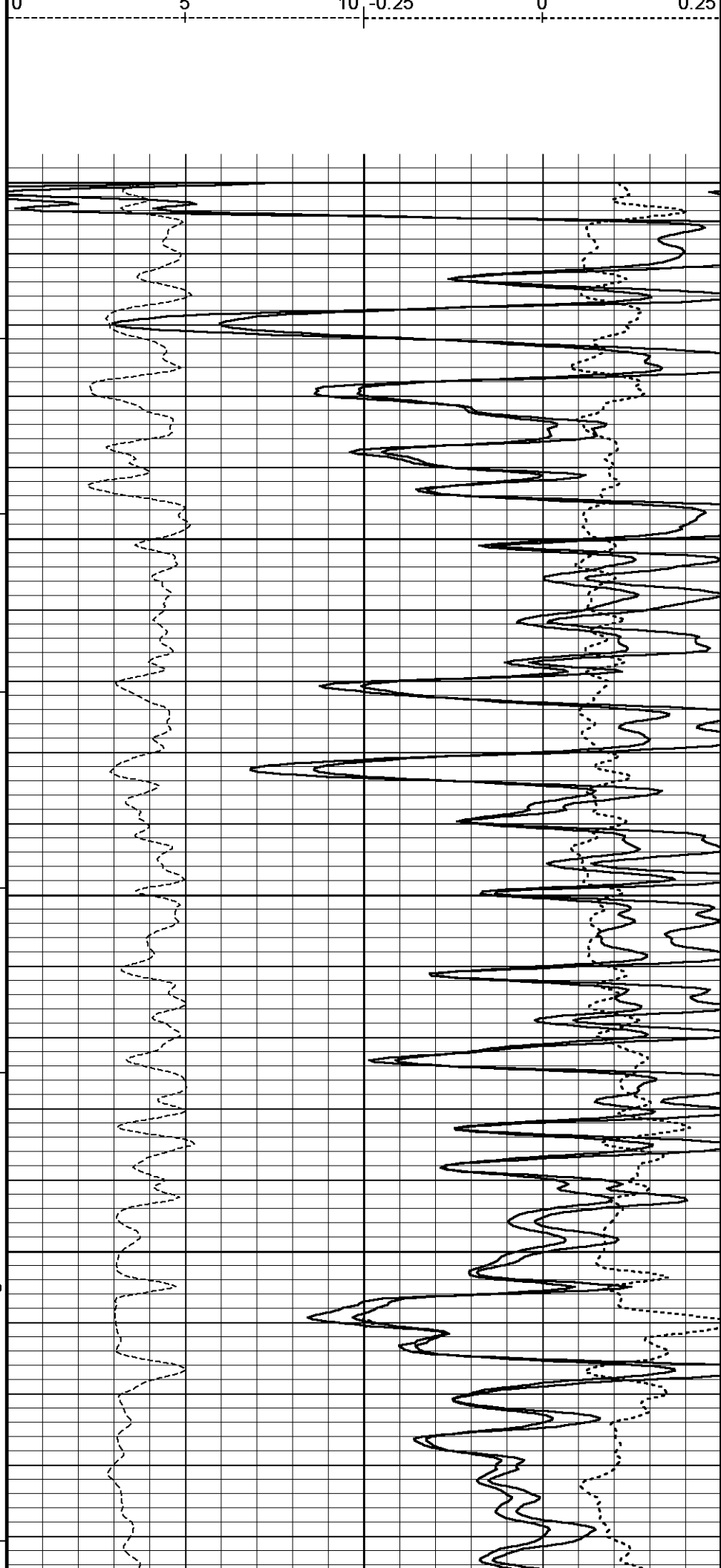
96°

2600

96°

2650

96°



0 5 10 0 0.25

95°

2550

96°

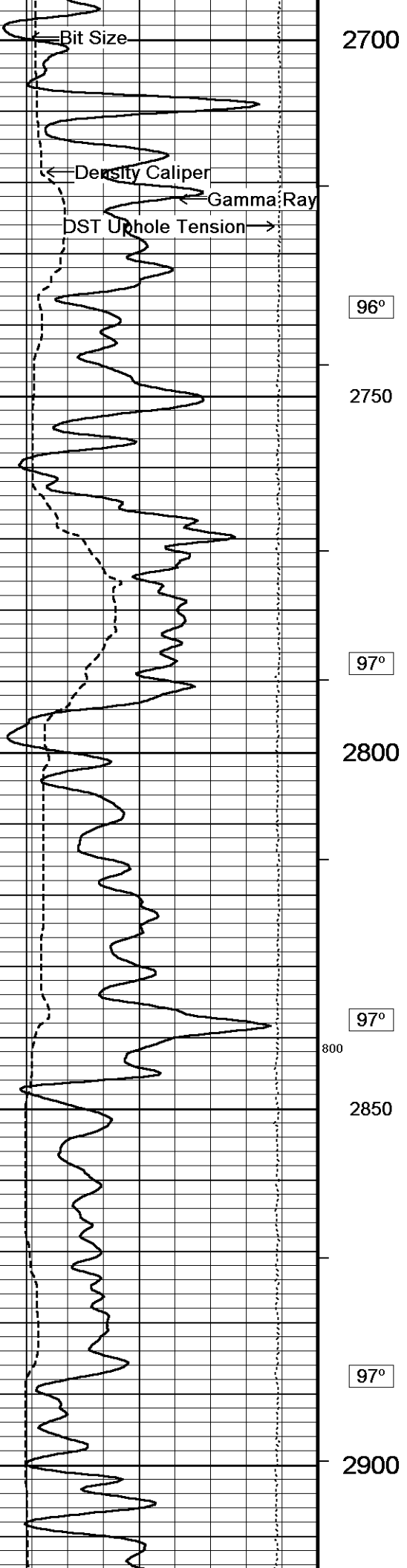
2600

96°

2650

96°

600



2700

96°

2750

97°

2800

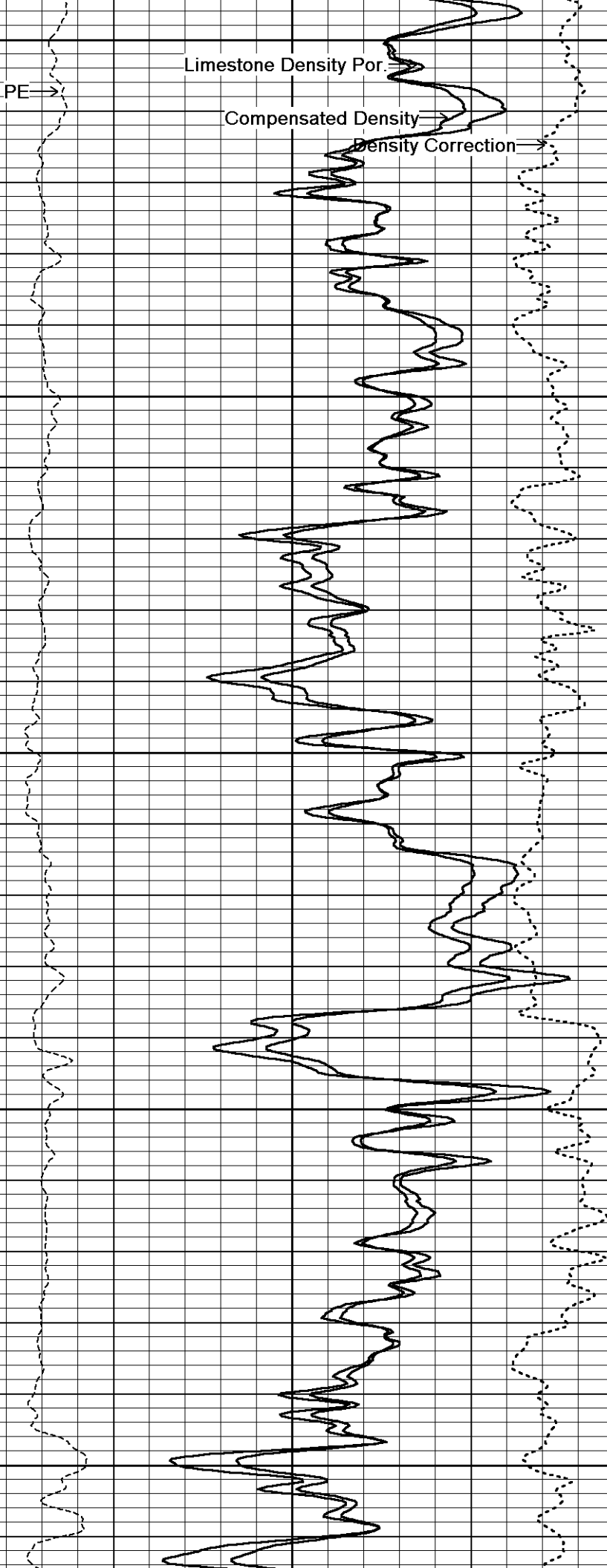
97°

800

2850

97°

2900

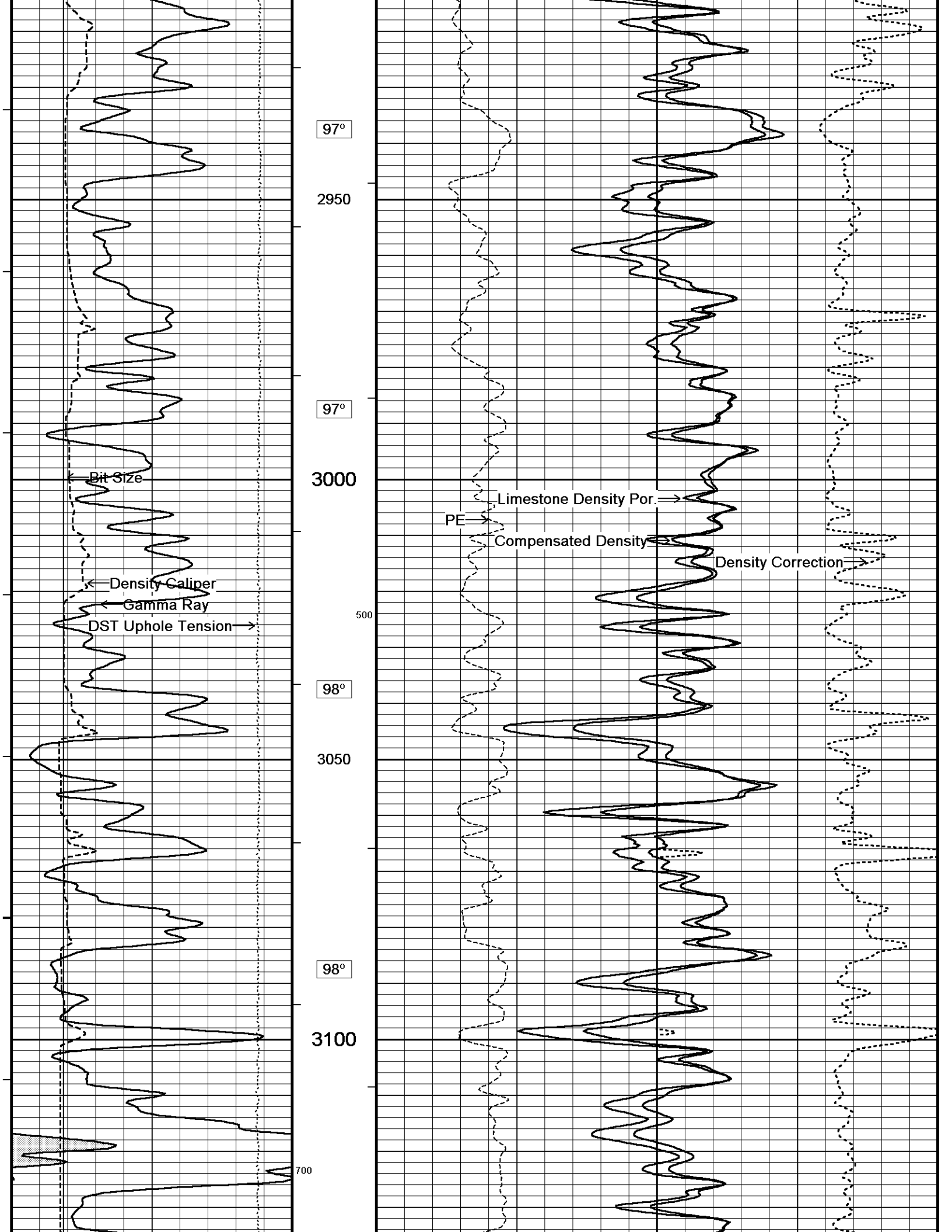


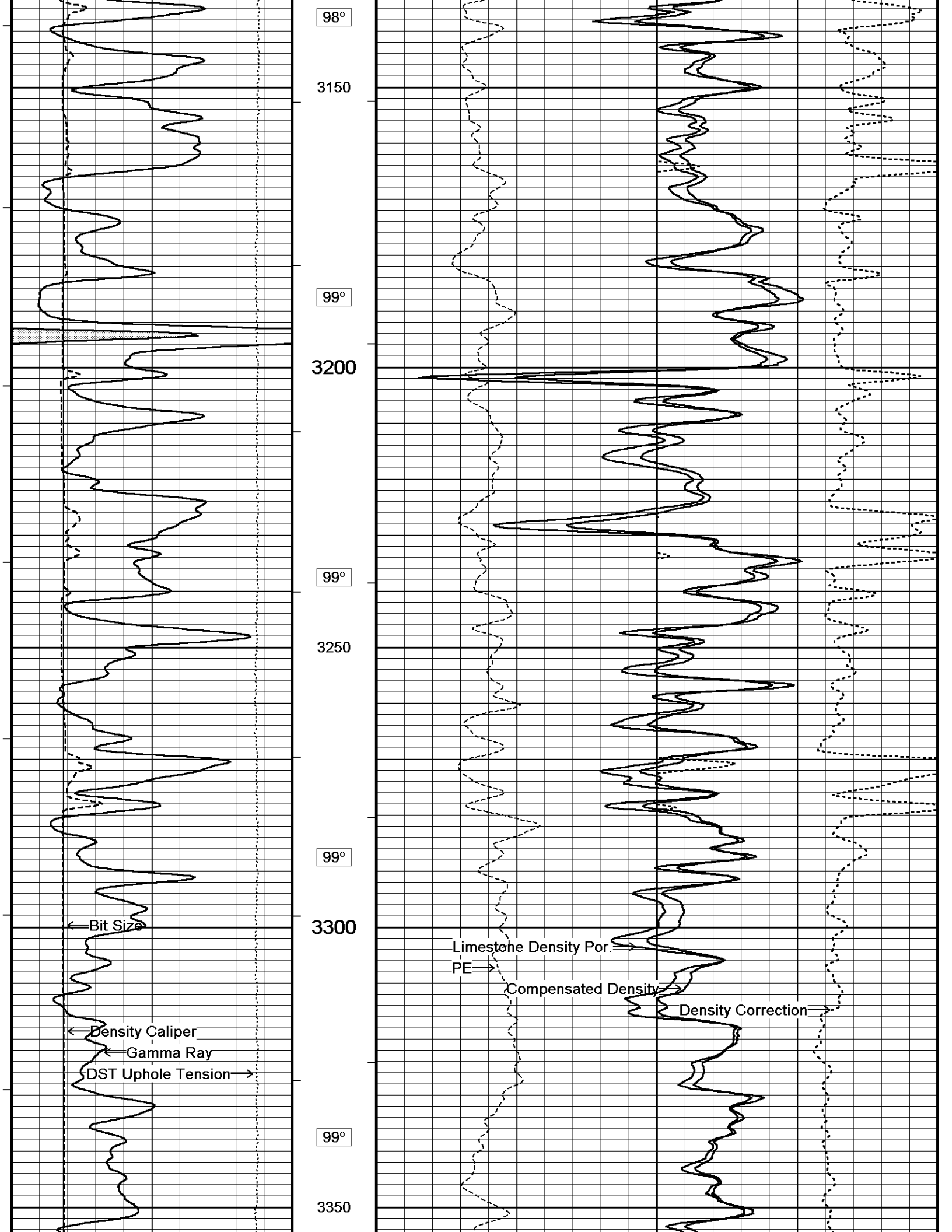
PE →

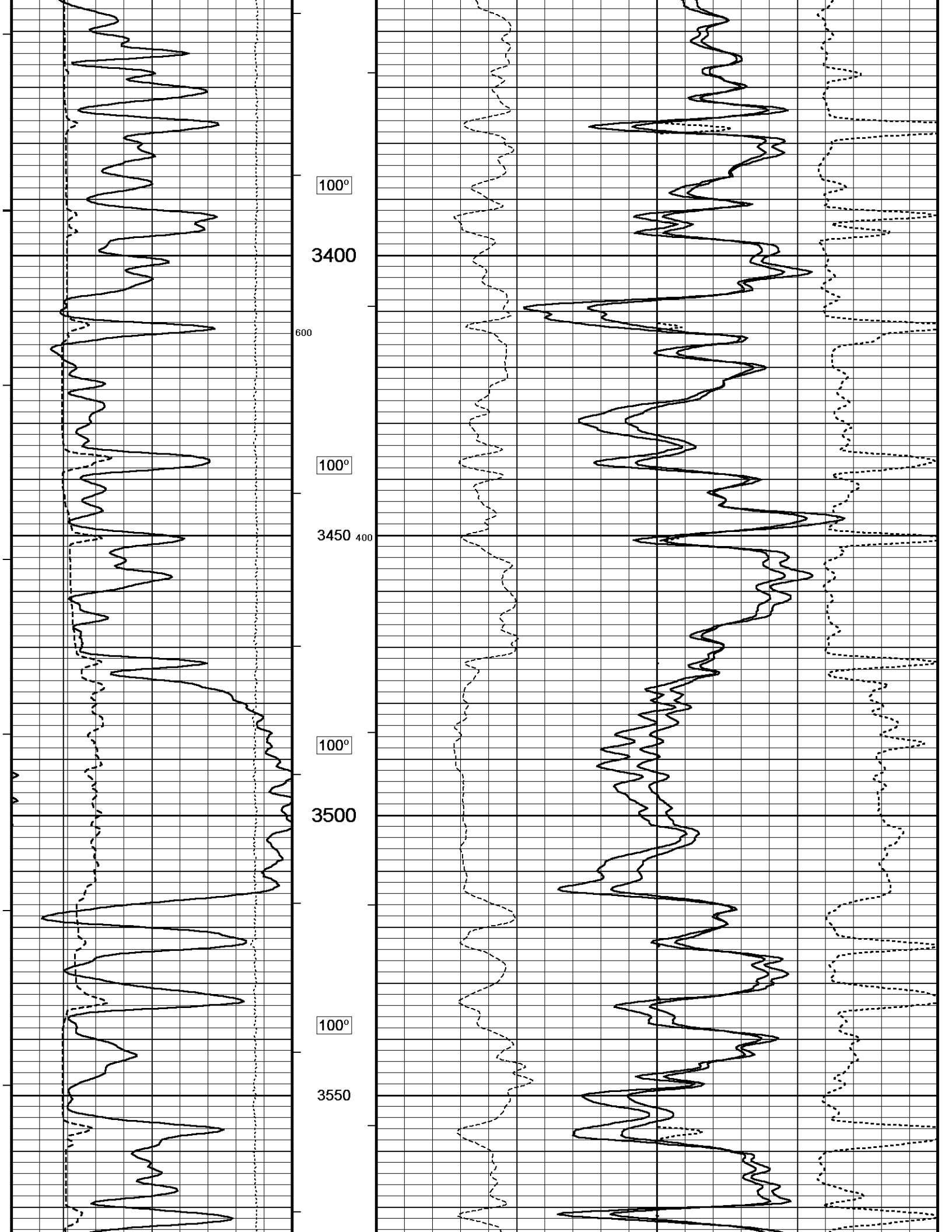
Limestone Density Por. →

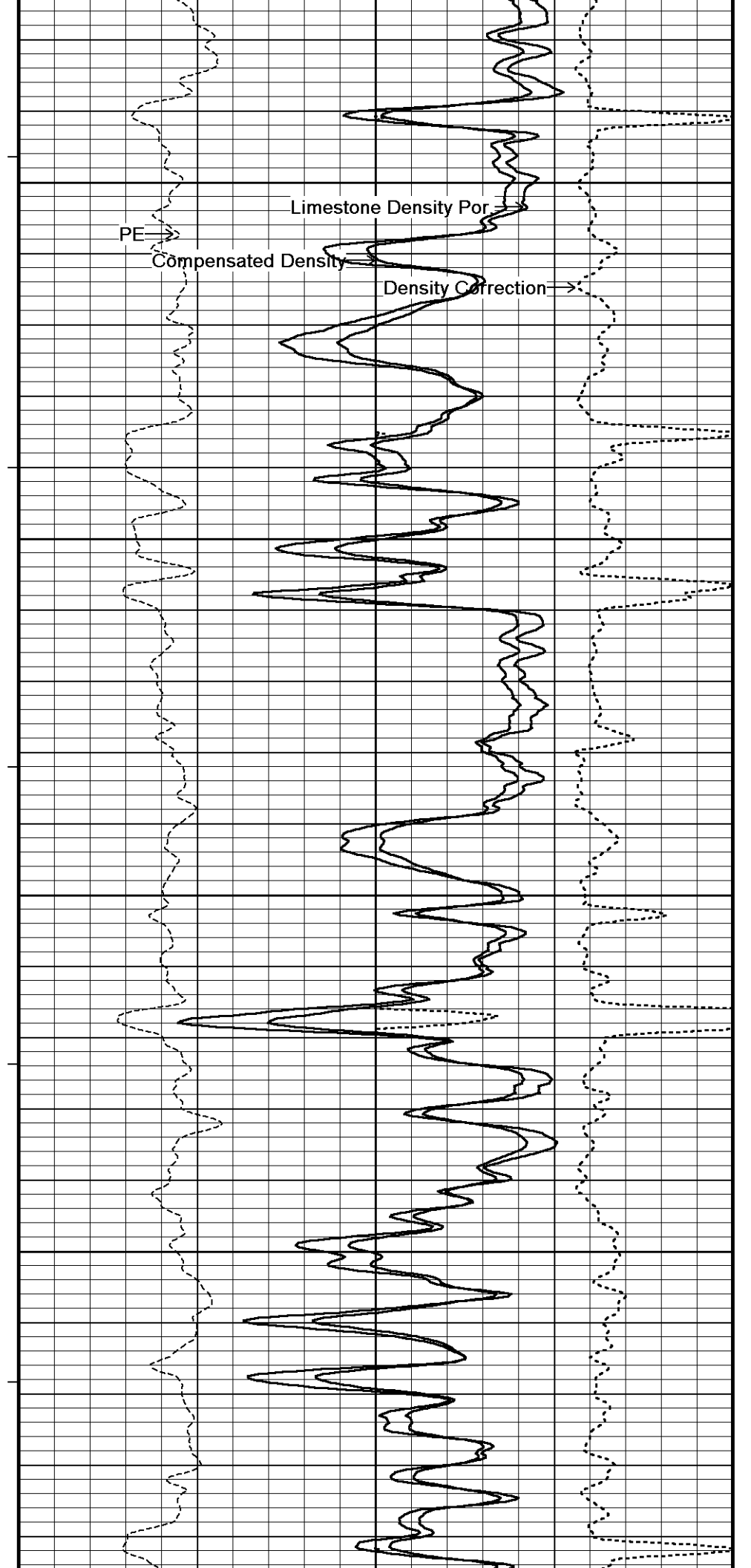
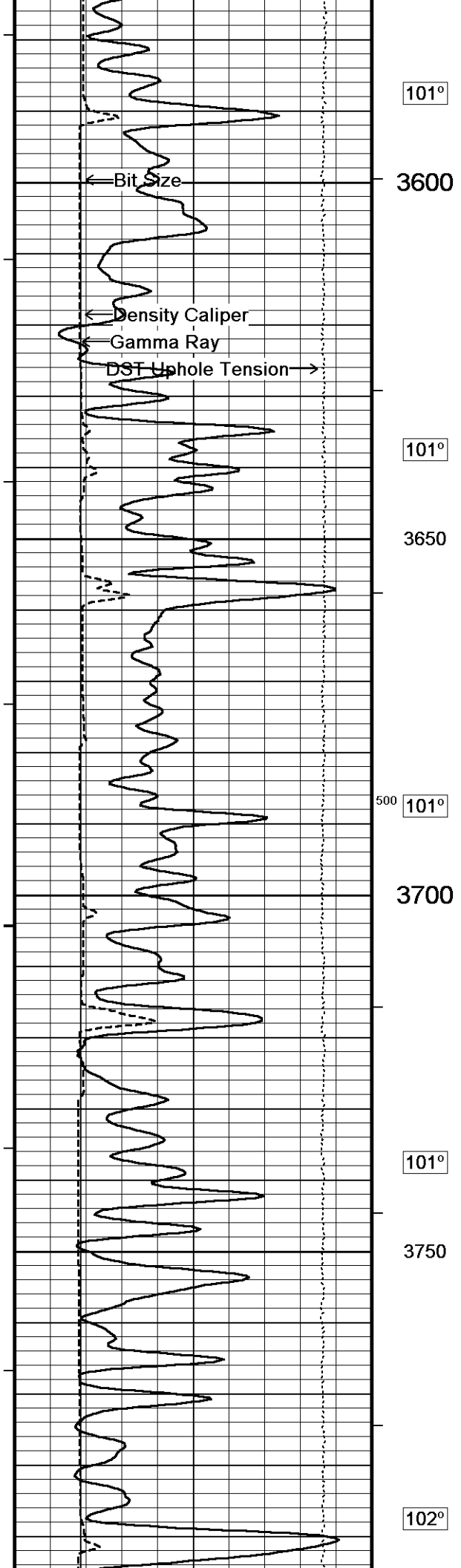
Compensated Density →

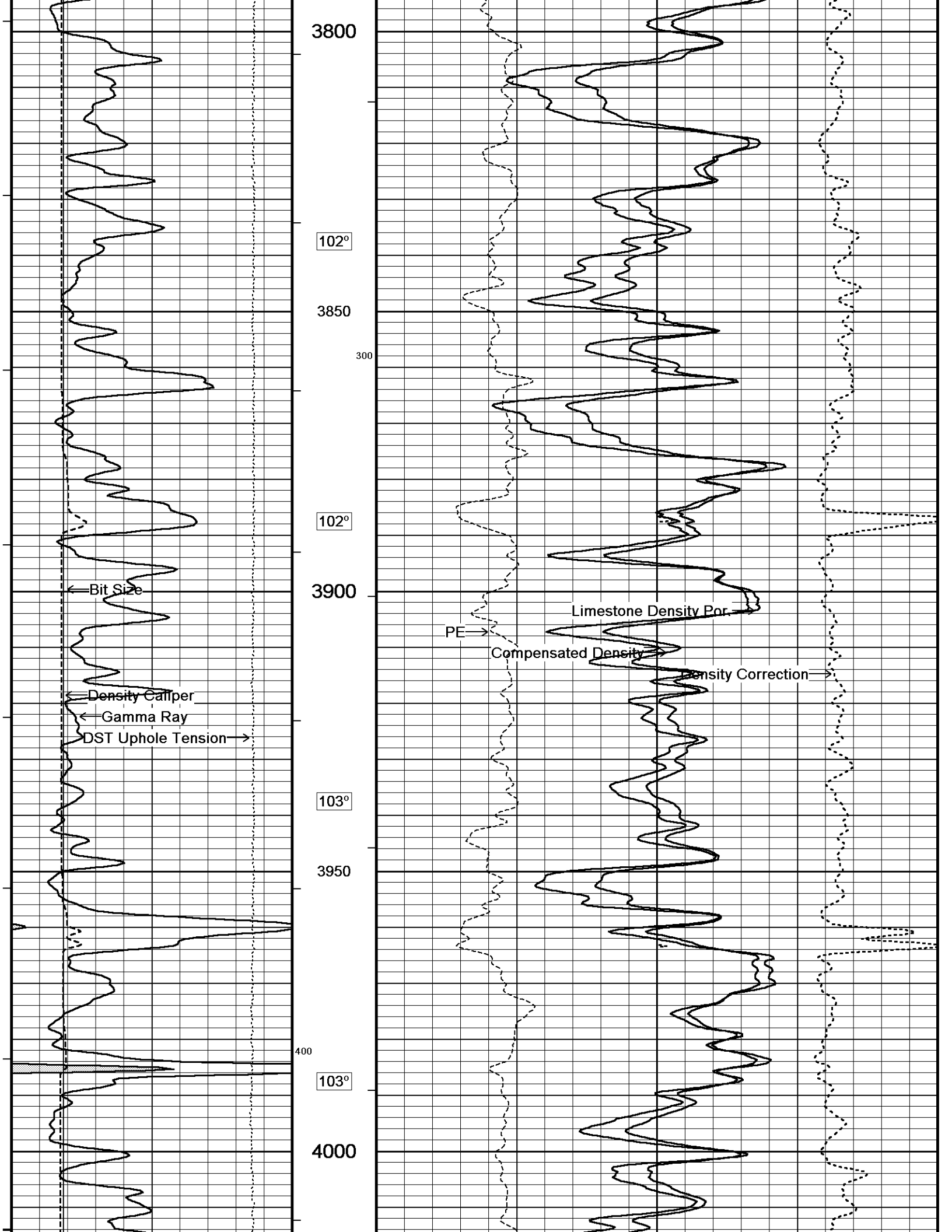
Density Correction →

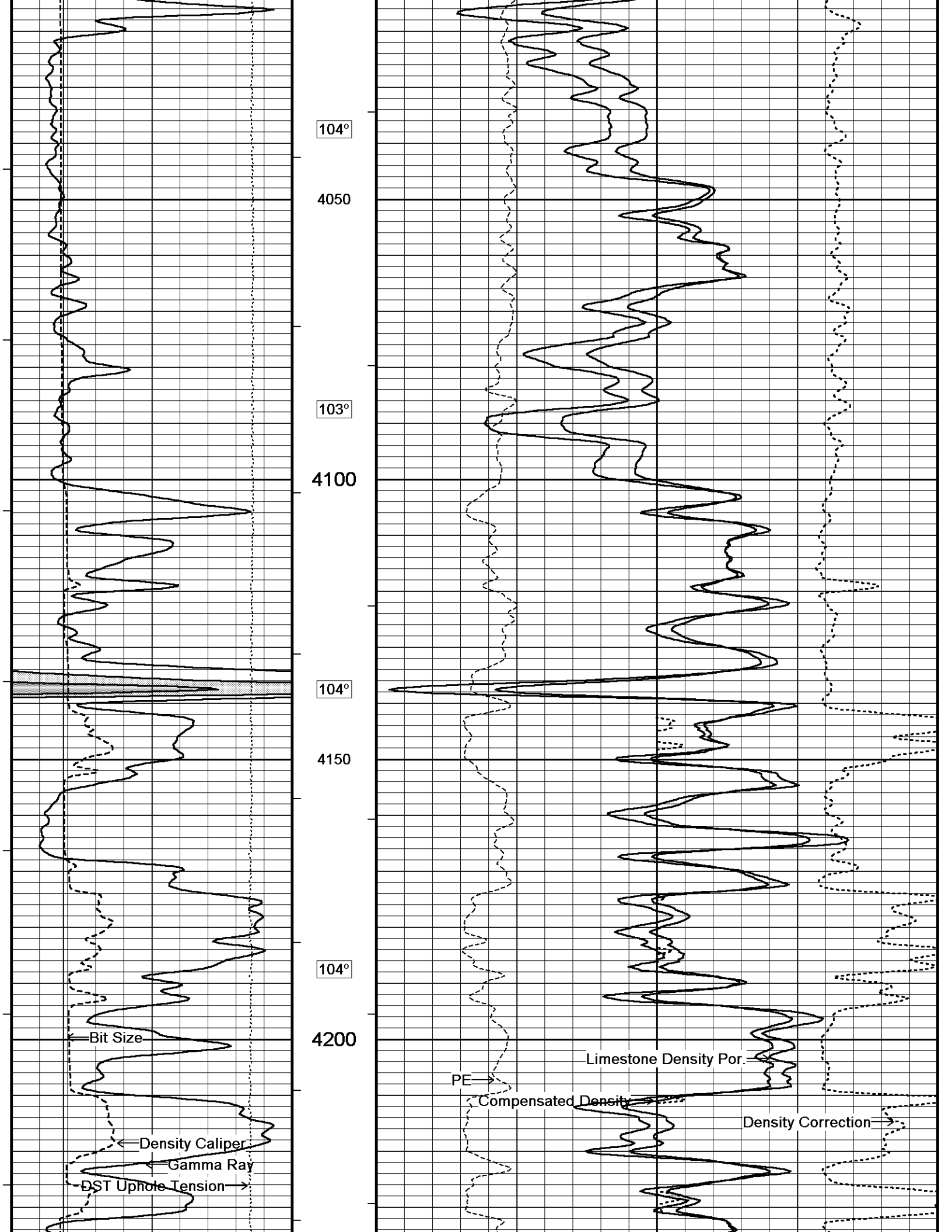


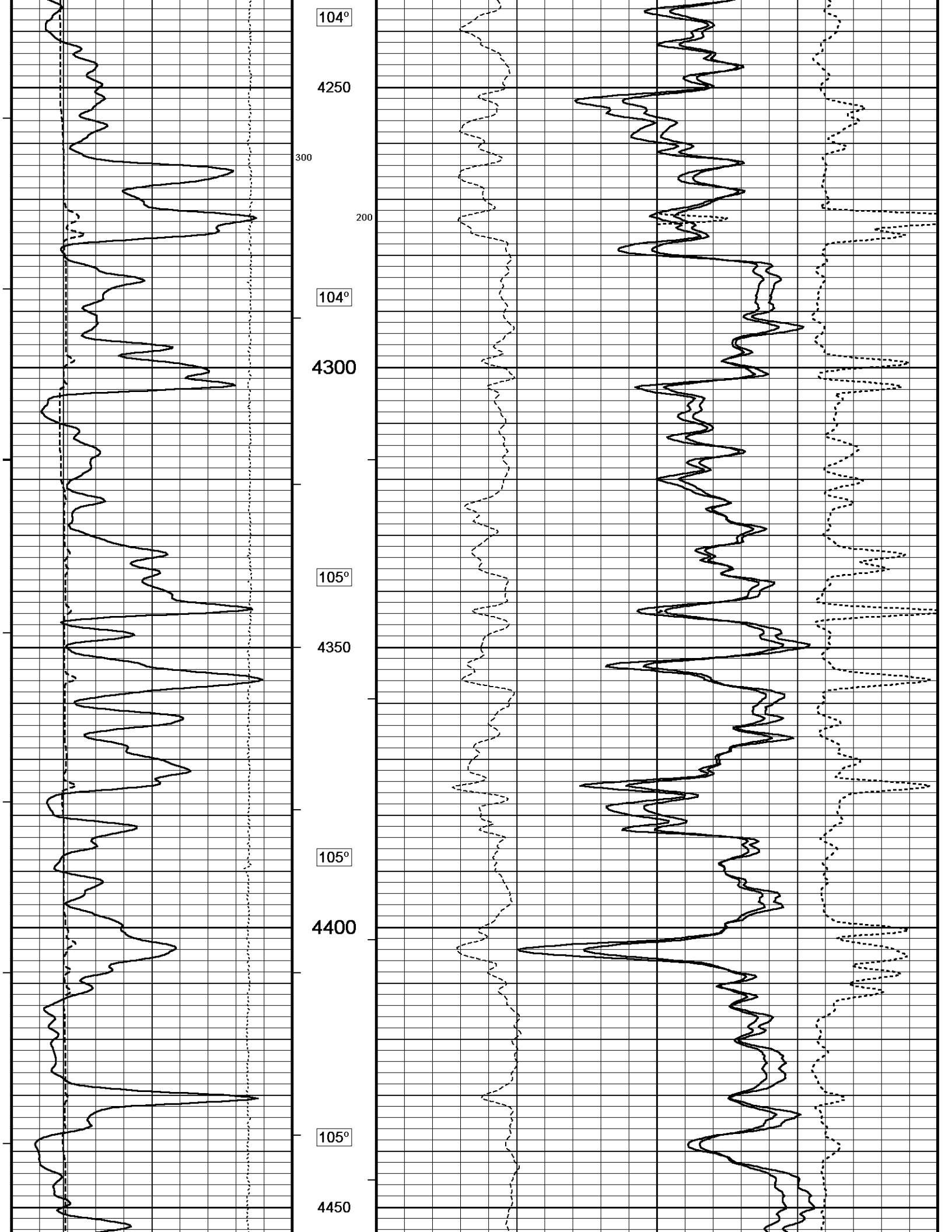


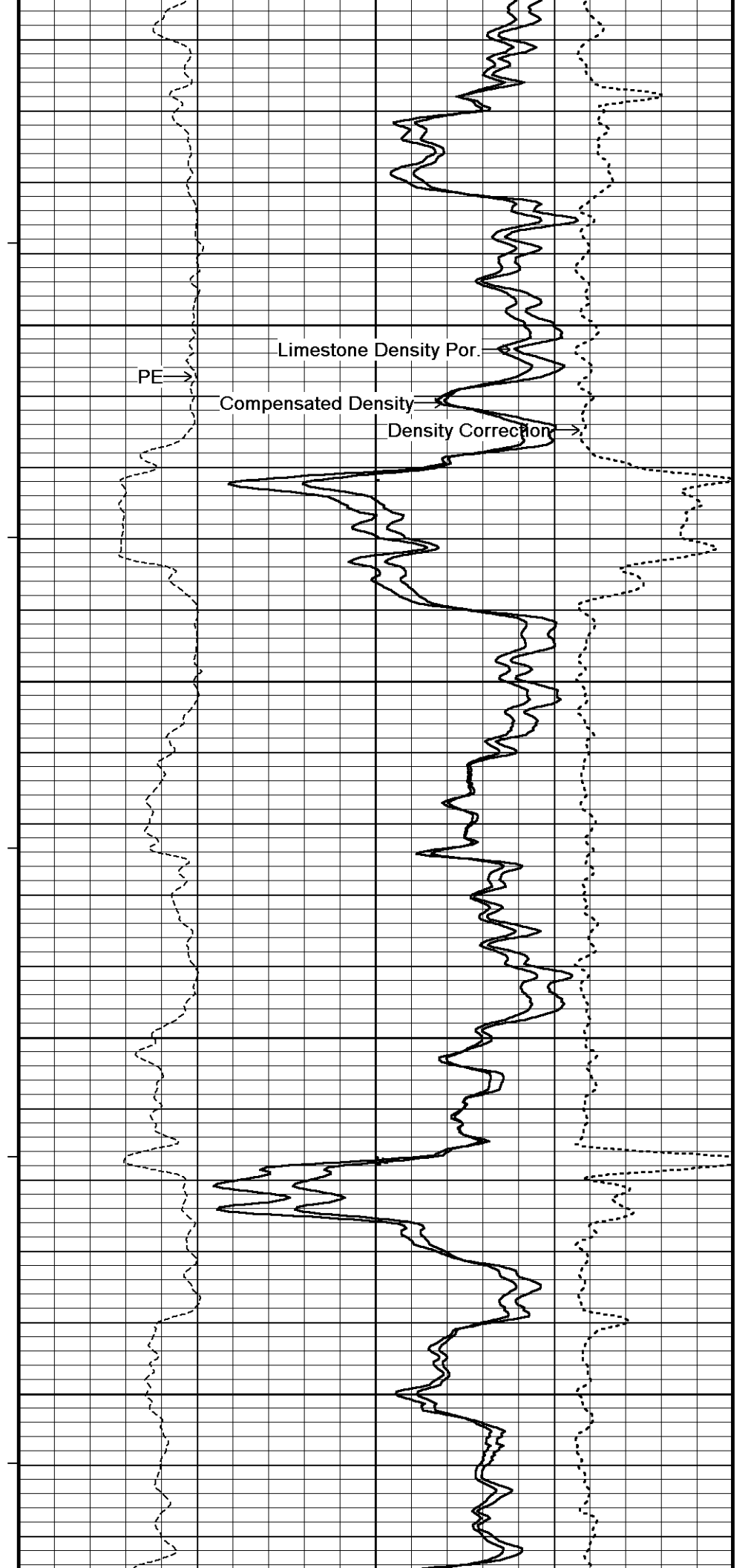
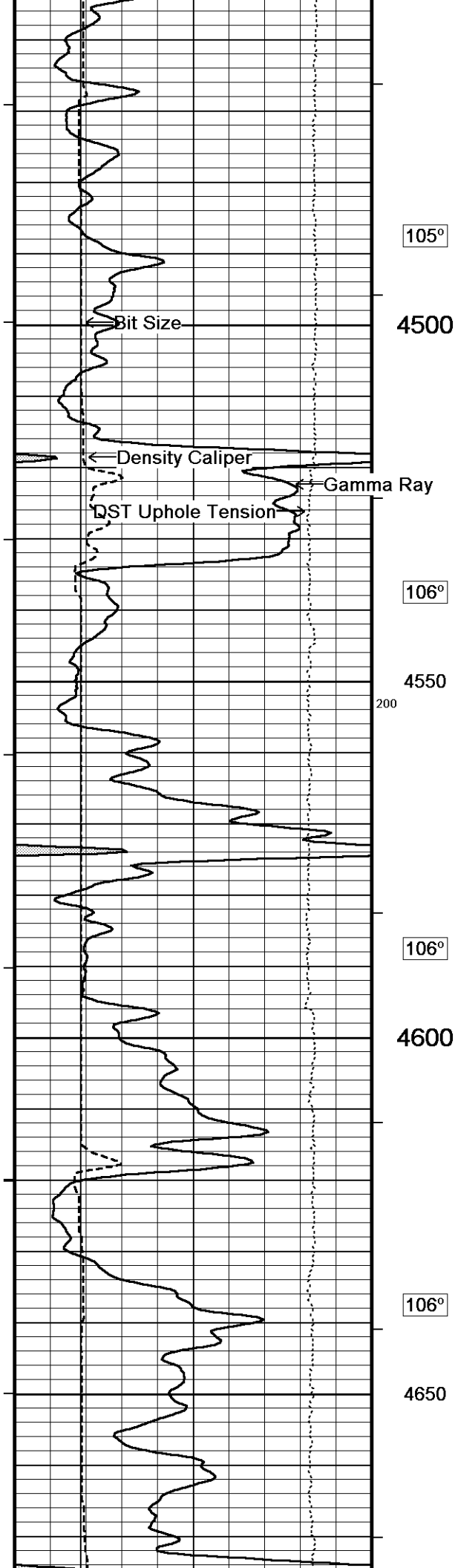


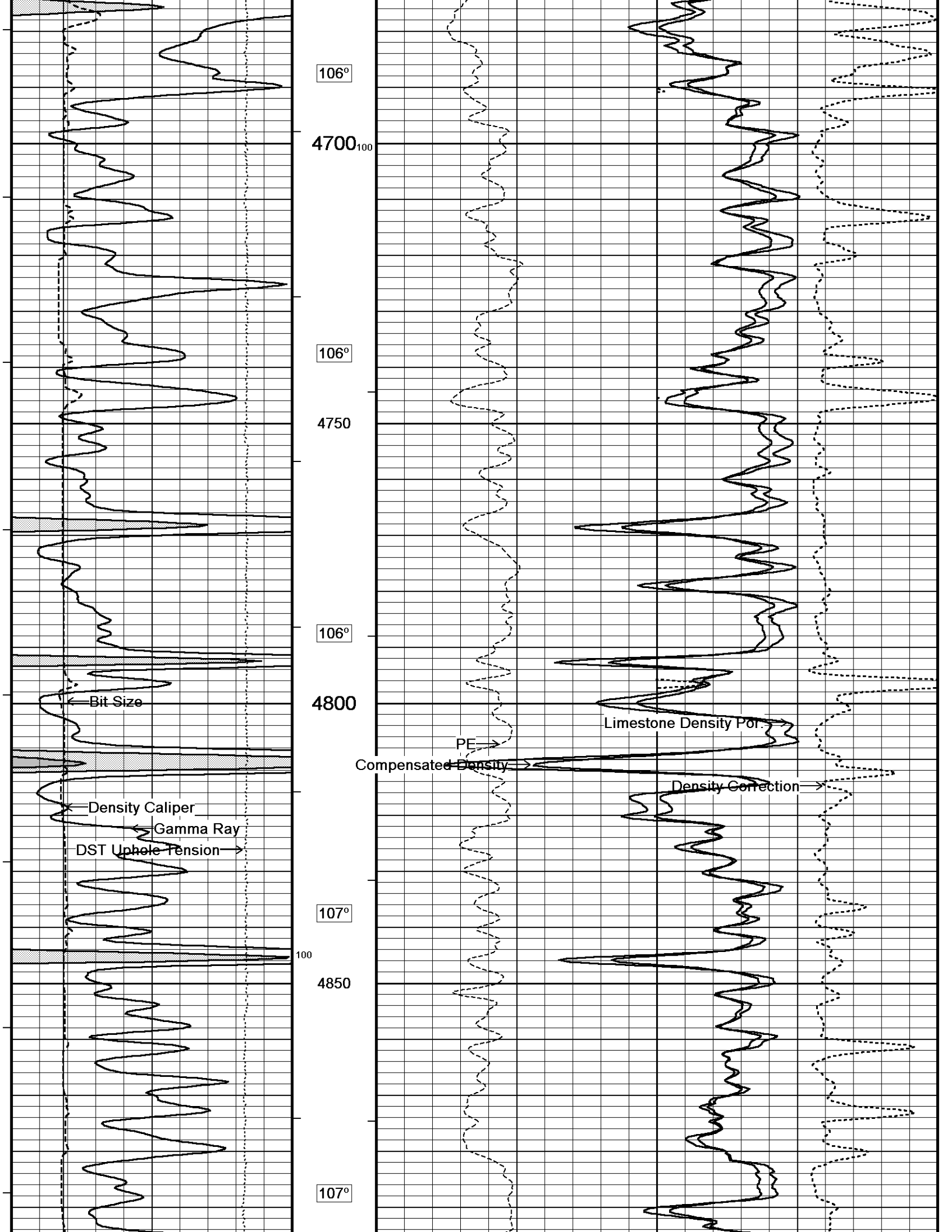


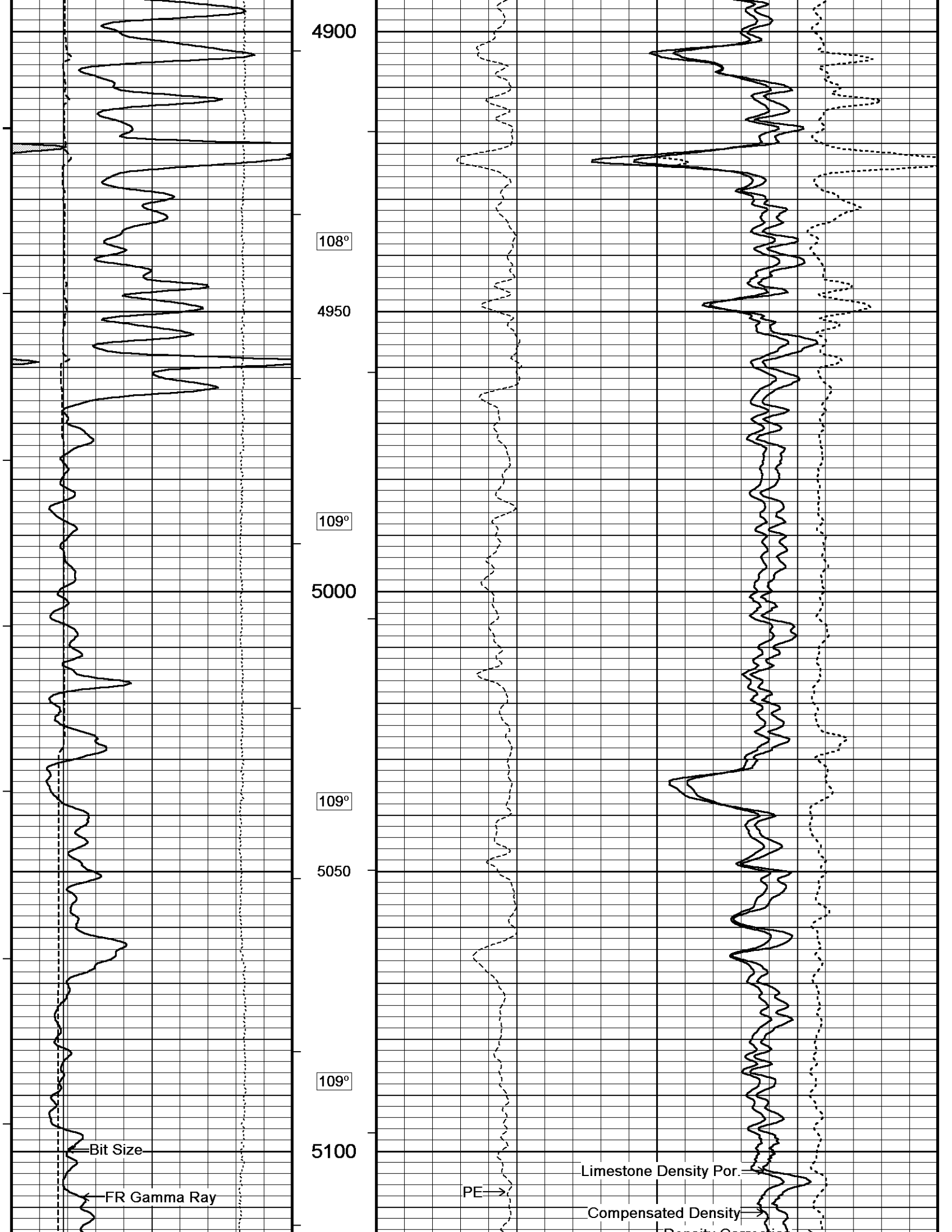


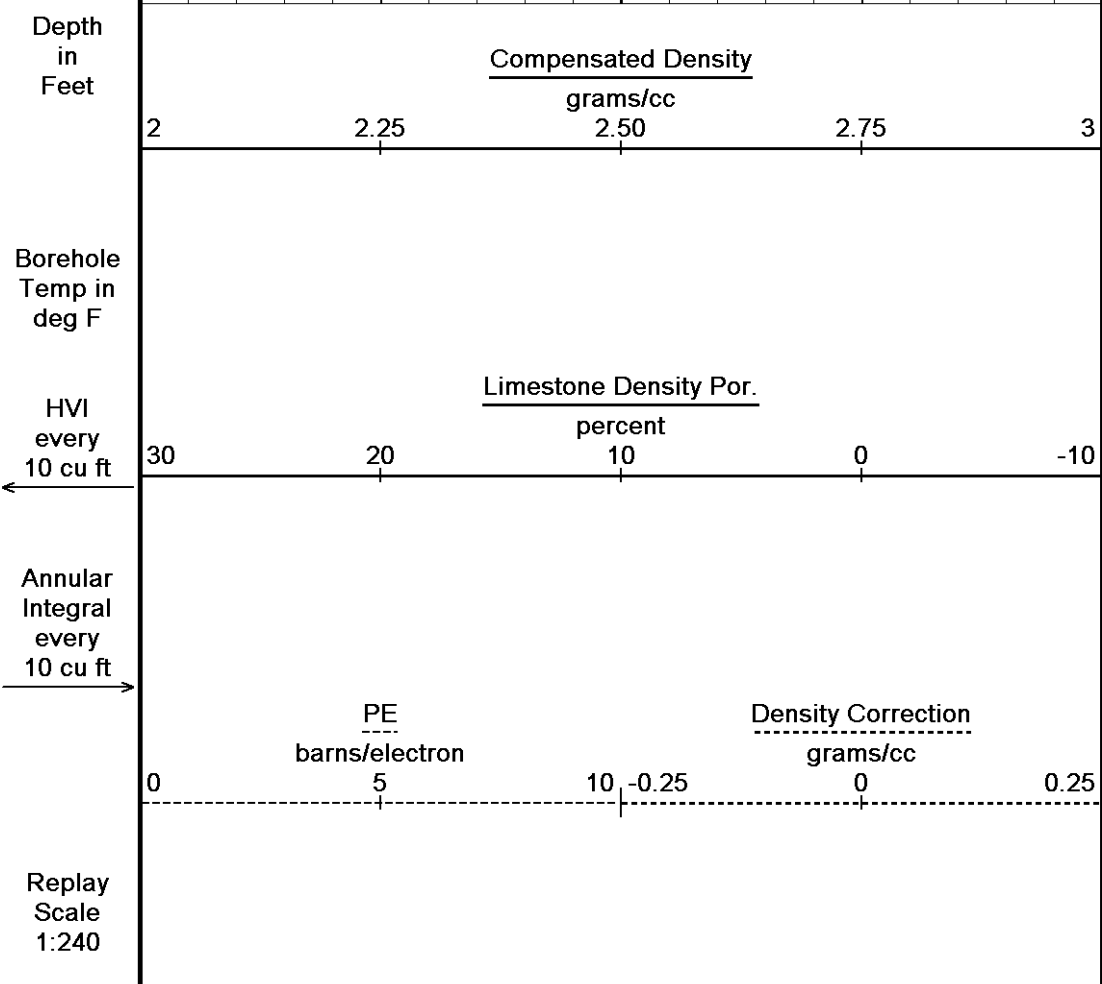
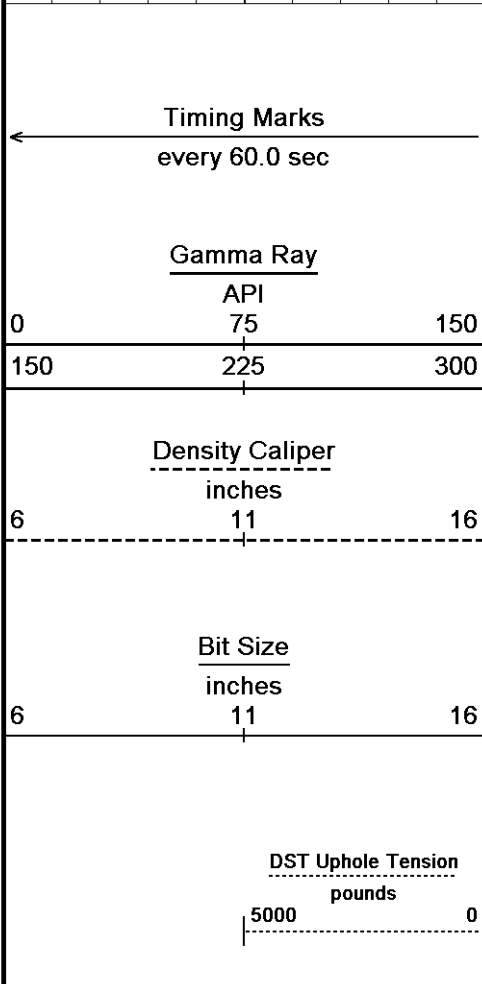
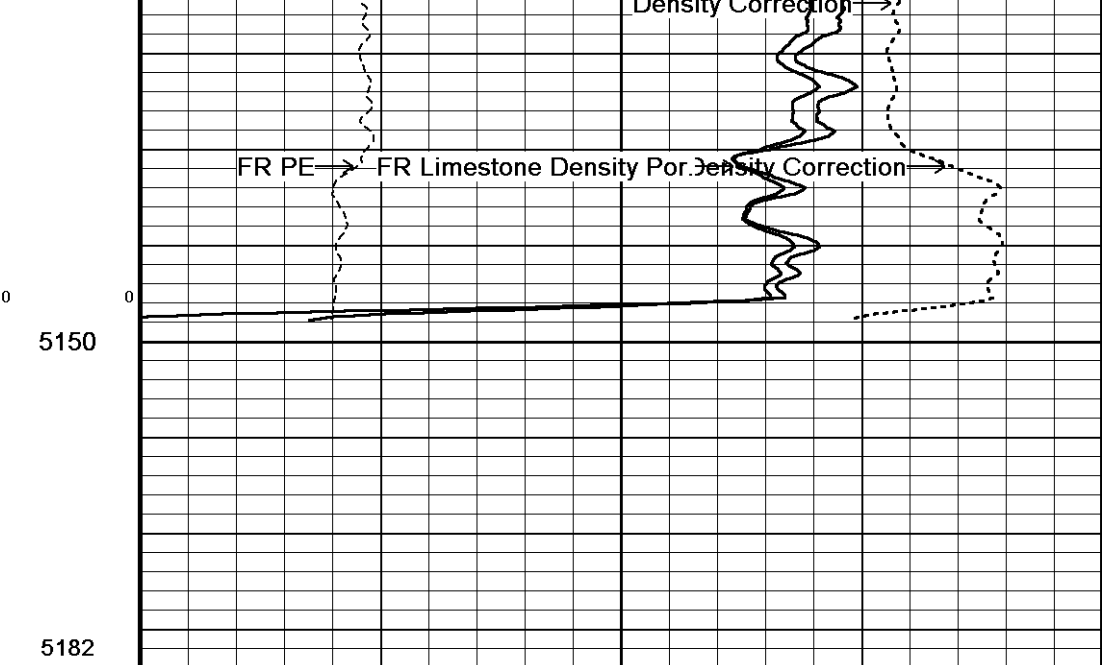
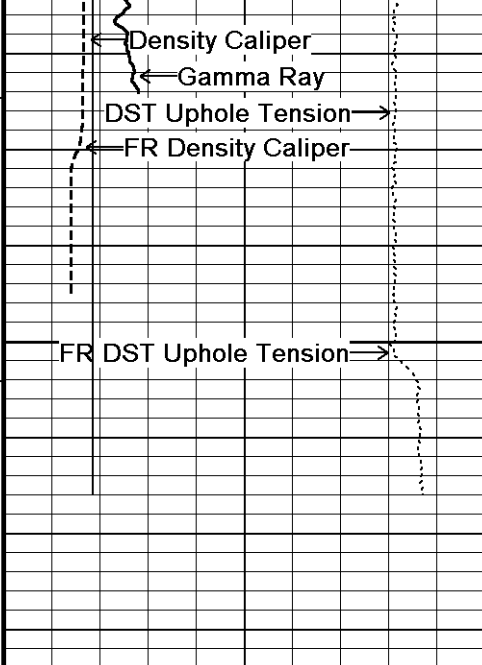












Depth Based Data - Maximum Sampling Increment 10.0cm
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↑ 5 INCH MAIN ↑

↓ REPEAT SECTION ↓

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Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

DST Uphole Tension
pounds
5000 0



Borehole Temp in deg F
2 2.25 2.50 2.75 3

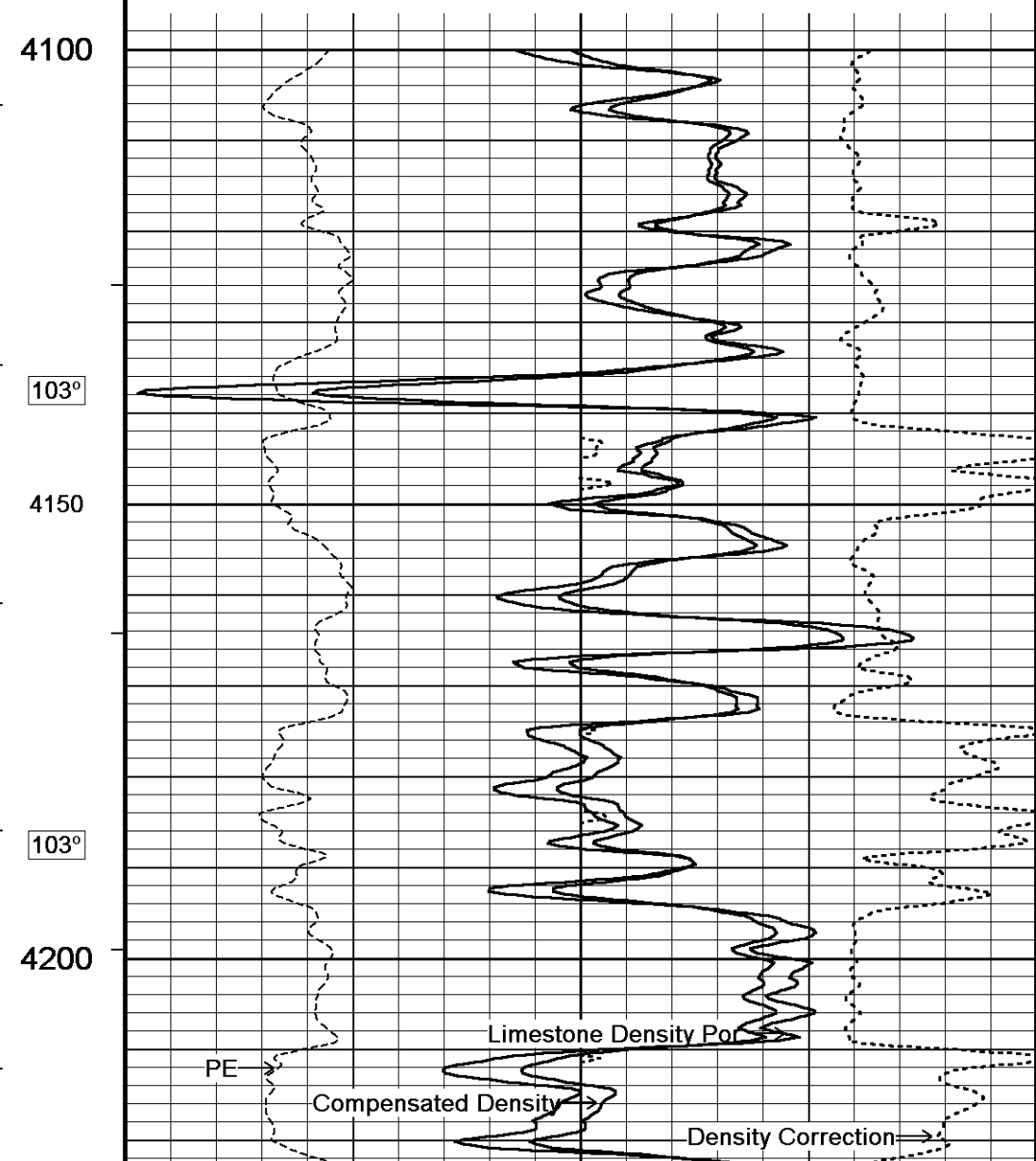
HVI every 10 cu ft
30 20 10 0 -10

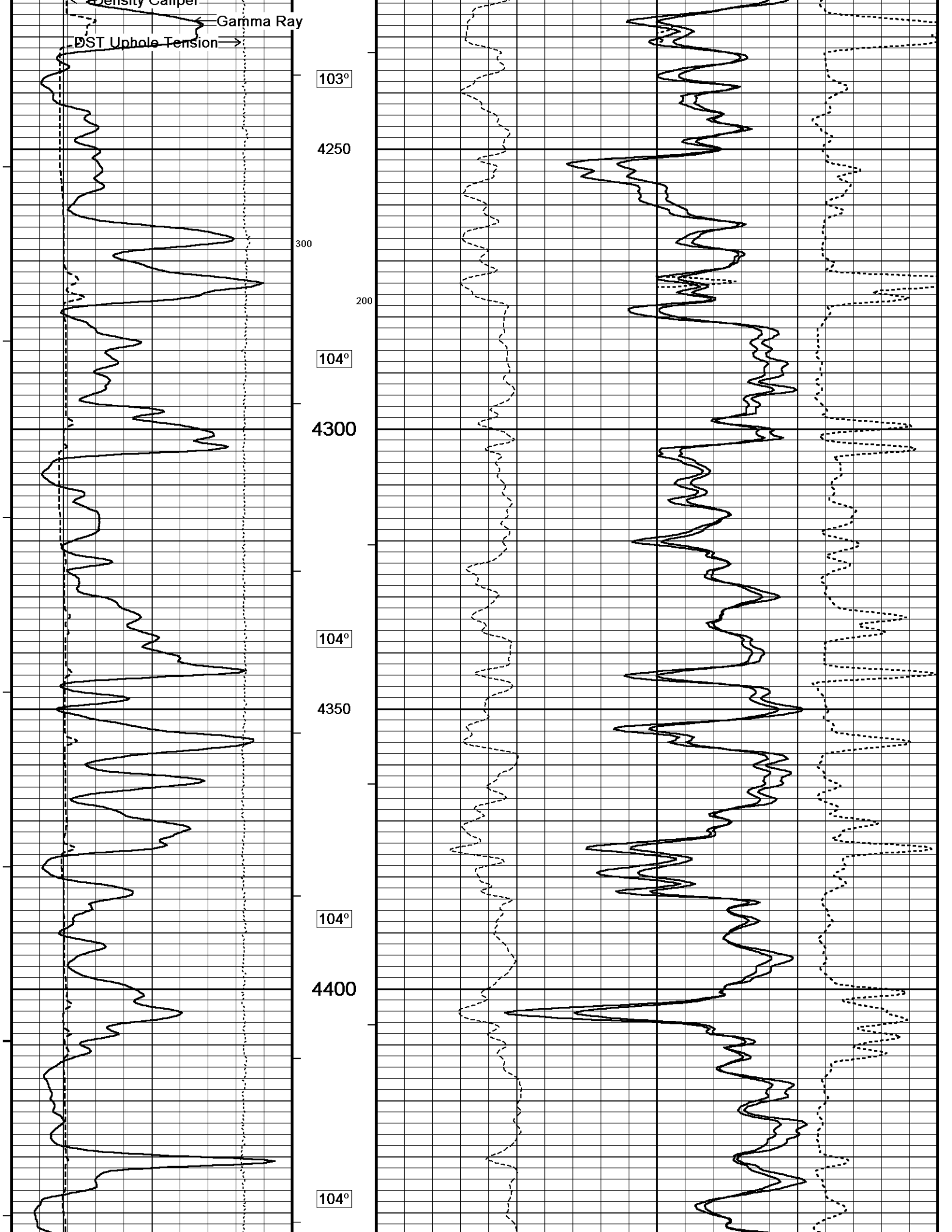
Annular Integral every 10 cu ft

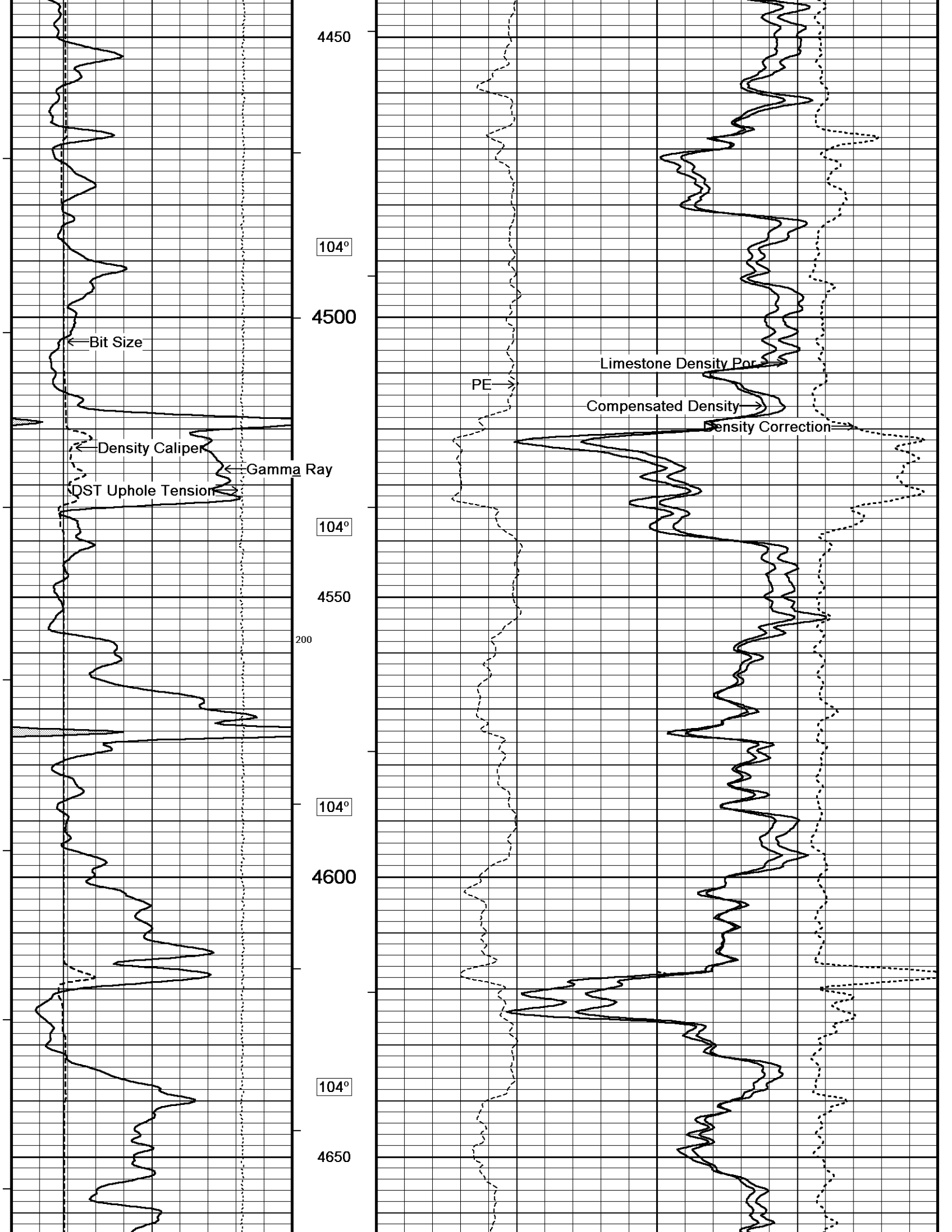
PE barns/electron
0 5 10

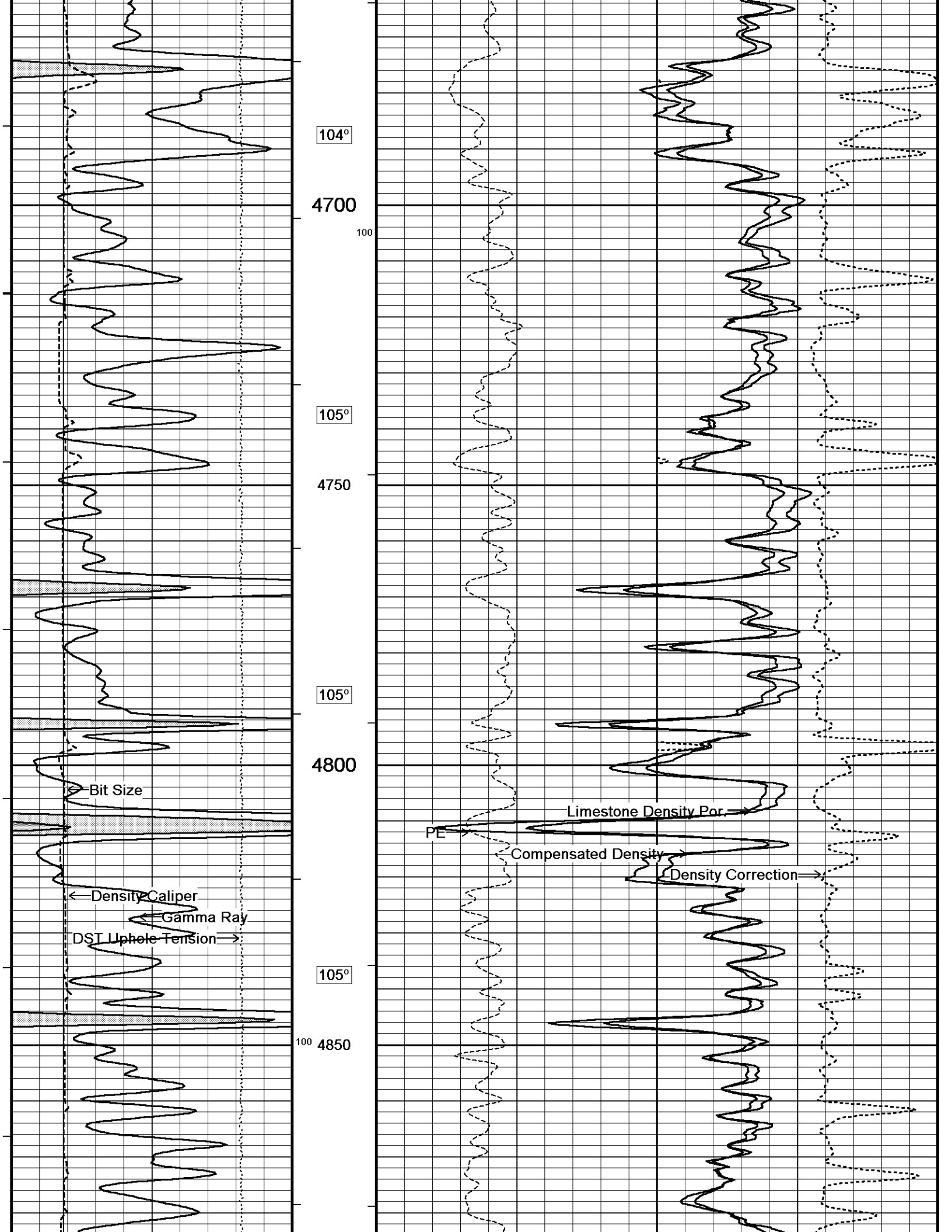
Density Correction grams/cc
-0.25 0 0.25

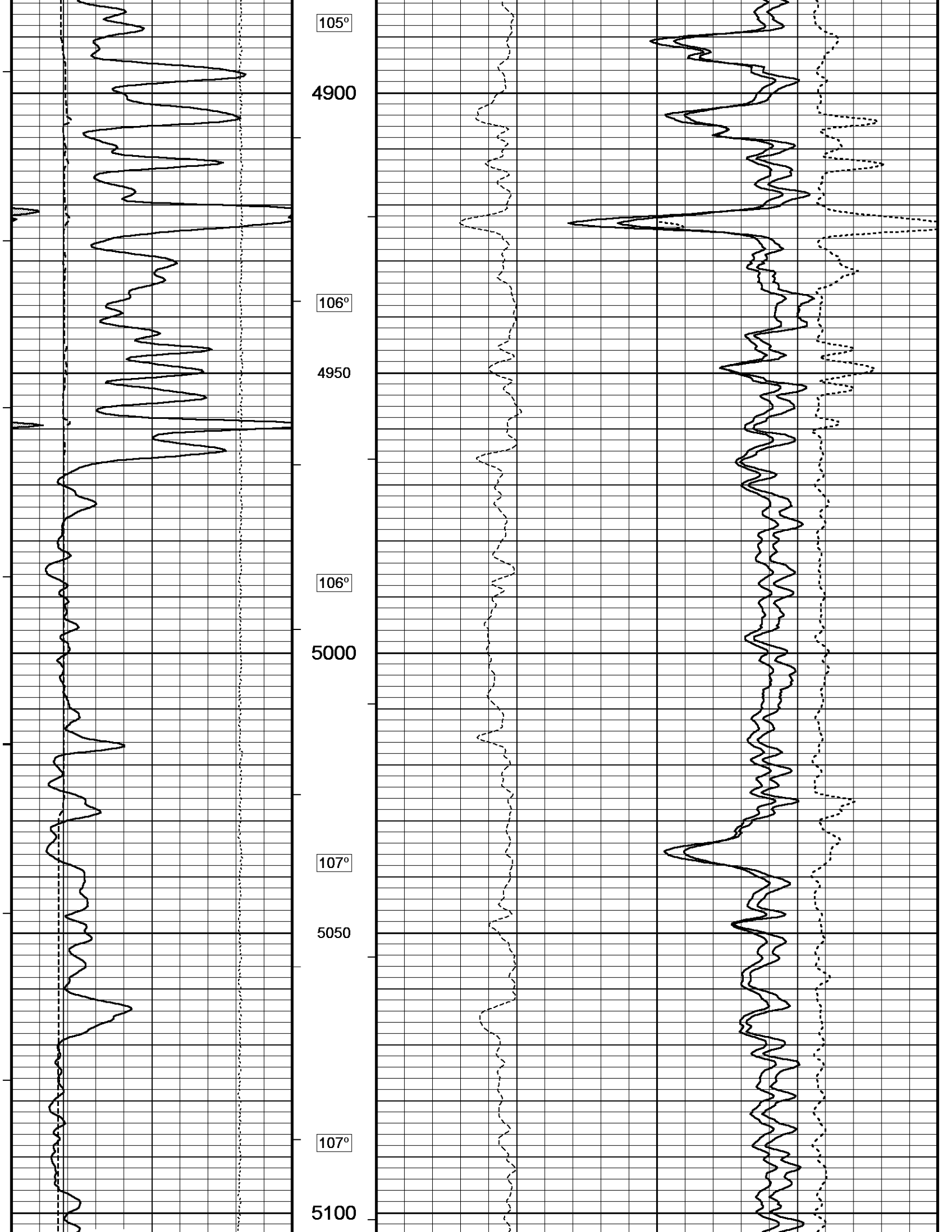
Replay Scale 1:240

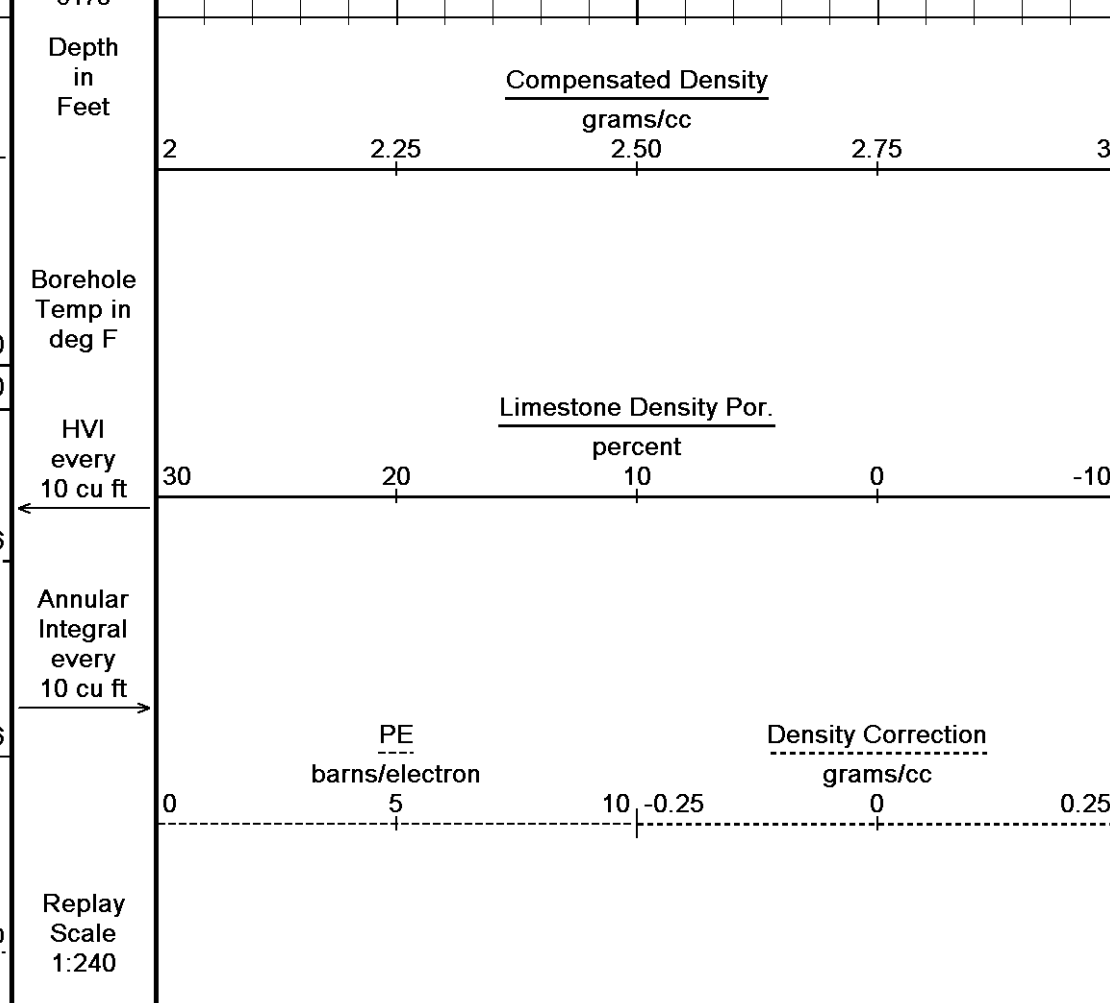
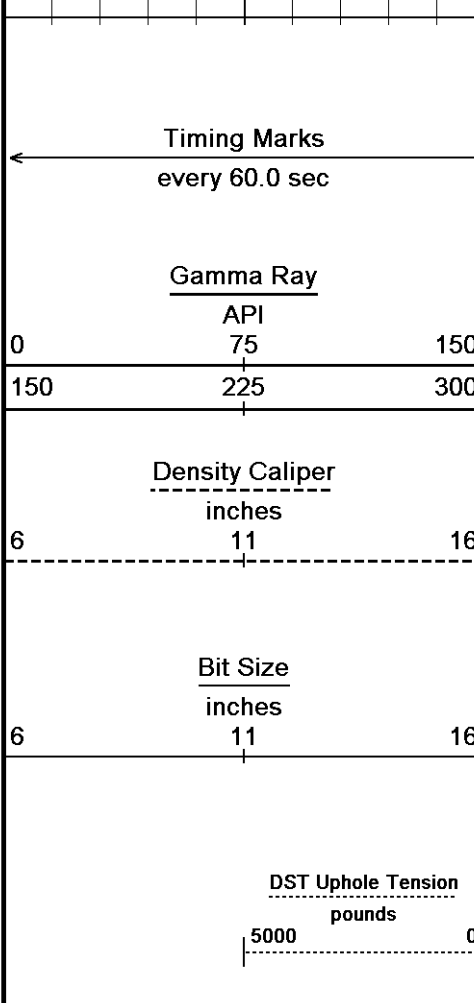
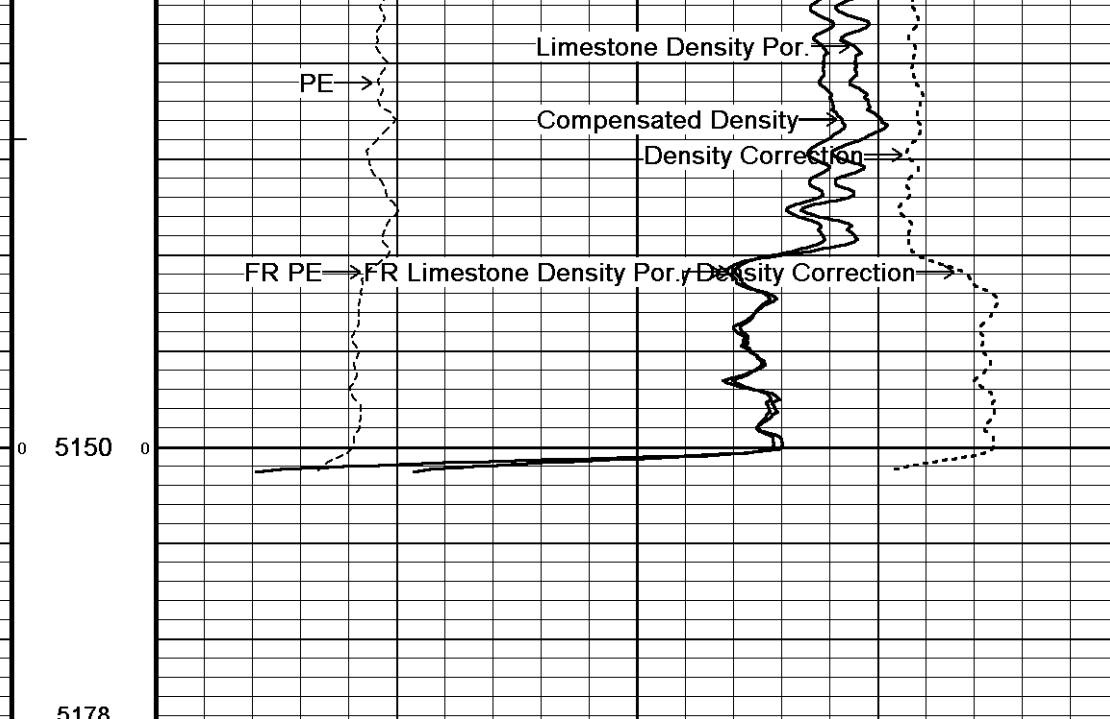
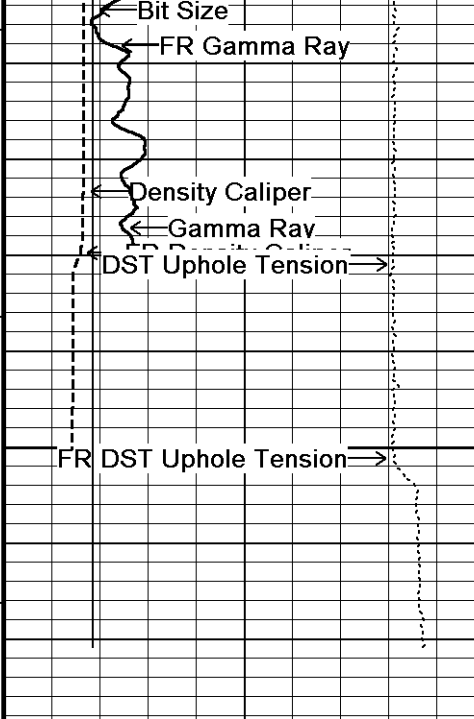












Depth Based Data - Maximum Sampling Increment 10.0cm
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↑ REPEAT SECTION ↑

BEFORE SURVEY CALIBRATION
 C:\Minimus 13.04.8492\Data\McCoy Petroleum Richardson Trust #1-15 'A'\McCoy Petroleum Richardson Trust #1-15 'A'_002.dta

General Constants All 000
 Last Edited on 26-NOV-2012,08:21

General Parameters

General Parameters			
Mud Resistivity	1.420	ohm-metres	
Mud Resistivity Temperature	84.000	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	4.500	inches	
Caliper for Differential Caliper	Density Caliper		

Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Array Ind. Four Res Rt		
RWA Constant A	1.000		
RWA Constant M	2.000		

High Resolution Temperature Calibration MCG-D.K 442

Field Calibration on 08-NOV-2012,09:48

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

High Resolution Temperature Constants MCG-D.K 442

Last Edited on 08-NOV-2012,09:48

Pre-filter Length	11
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Gamma Calibration MCG-D.K 442

Field Calibration on 21-NOV-2012 08:45

	Measured	Calibrated (API)
Background	70	47
Calibrator (Gross)	1151	772
Calibrator (Net)	1082	725

Gamma Constants MCG-D.K 442

Last Edited on 26-NOV-2012,07:12

Gamma Calibrator Number	GRC38		
Mud Density	1.07	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

Caliper Calibration MPD-B 64

Base Calibration on 14-NOV-2012 10:10
Field Calibration on 21-NOV-2012 08:31

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	12782	3.99
2	21549	5.98
3	30053	7.97
4	38387	9.86
5	47704	11.92
6	N/A	N/A
Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	5.96	5.98

Photo Density Calibration MPD-B 64

Base Calibration on 14-NOV-2012 10:35
Field Check on 21-NOV-2012 08:36

Density Calibration				
Base Calibration				
		Measured	Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	59022	32914	59556	30836
Reference 2	24784	2905	24941	2541
Field Check at Base				
	1182.0	1367.8		
Field Check				
	1182.2	1368.8		

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	214	1053		
Reference 1	22259	58821	0.382	0.371
Reference 2	6702	24646	0.275	0.272
Field Check at Base				
	214.3	1053.1		
Field Check				
	213.9	1052.6		

Density Constants MPD-B 64

Last Edited on 26-NOV-2012,07:11

Density Source Id	18235B	
Nylon Calibrator Number	DNCE695	
Aluminium Calibrator Number	DACD698	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.07	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:\Minimus 13.04.8492\Data\McCoy Petroleum Richardson Trust #1-15 'A'\McCoy Petroleum Richardson Trust #1-15 'A'_002.dta

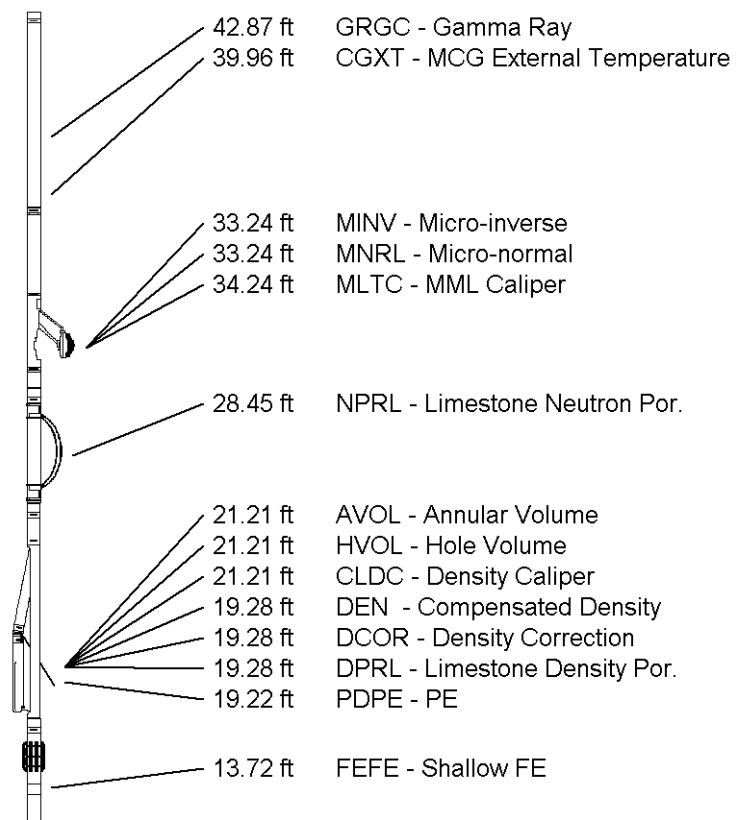
Compact Comms Gamma
MCG-D.K 442 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 16 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-B 64 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 Induction
 MAI-A.A 167 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.16 ft Weight: 383.6 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	MCCOY PETROLEUM CORP.
WELL	RICHARDSON TRUST #1-15 'A'
FIELD	WILDCAT
PROVINCE/COUNTY	GRAY
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	2754.00	feet	First Reading	5132.00	feet
Elevation Drill Floor	2752.00	feet	Depth Driller	5150.00	feet
Elevation Ground Level	2741.00	feet	Depth Logger	5151.00	feet



Weatherford[®]

COMPACT PHOTO DENSITY
 COMPENSATED NEUTRON
 MICRORESISTIVITY LOG