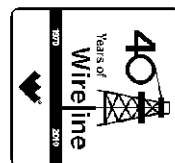




Weatherford

COMPENSATED PHOTO DENSITY COMPENSATED DUAL NEUTRON LOGS



COMPANY	WEXPRO COMPANY		
WELL	CARL ALLEN 41		
FIELD	POWDER WASH		
PROVINCE/COUNTY	MOFFAT		
COUNTRY/STATE	USA/COLORADO		
LOCATION	SHL: 1054' FSL & 710' FWL		
SEC	TWP	RGE	Other Services
28	12N	97W	MAI
API Number	0508107644		CXD
Permit Number			
Permanent Datum G.L., Elevation 6660 feet			Elevations: feet
Log Measured From KB			KB 6689.00
Drilling Measured From KB			DF 6689.00
			GL 6660.00
Date	24-JAN-2012		
Run Number	1		
Depth Driller	9520.00 feet		
Depth Logger	6880.00 feet		
First Reading	6823.00 feet		
Last Reading	1532.00 feet		
Casing Driller	1534.00 feet		
Casing Logger	1532.00 feet		
Bit Size	7.875 inches		
Hole Fluid Type	WBM		
Density / Viscosity	10.30 lb/USg	42.00 CP	
PH / Fluid Loss	10.30	6.80 cc/30min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	2.60 @ 73.8 ohm-m		
Rmf @ Measured Temp	2.08 @ 73.8 ohm-m		
Rmc @ Measured Temp	3.12 @ 73.8 ohm-m		
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.19 @165.0 ohm-m		
Time Since Circulation	6 HOURS		
Max Recorded Temp	165.00 deg F		
Equipment Name	COMPACT		
Equipment / Base	13144	RK SPR	
Recorded By	A.VAN BRUNT		
Witnessed By	S.LAWS		

BOREHOLE RECORD			Last Edited: 24-JAN-2012 05:41	
Bit Size inches	Depth From feet		Depth To feet	
7.875	1534.00		9520.00	
CASING RECORD				
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	1534.00	36.00

REMARKS	
SOFTWARE VERSION 12.02.4401	
TOOLS RUN: SHA, MCG, MDN, MPD, MIS-D, SKJ, MIS-B, SKJ, CXD, MFE, MAI RUN IN COMBINATION.	
HARDWARE: MPD: 8" PROFILE PLATE USED. MAI: TWO 1 INCH STANDOFFS USED. MFE: ONE 1 INCH STANDOFF USED. MDN: DUAL BOWSPRING USED. CXD: TWO CENTRALIZING BASKETS	
2.65 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.	
TIGHT PULLS, BOREHOLE SIZE AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.	
ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.	
BRIDGED AT 6880FT. LOGGED UP FROM THERE	

TOTAL HOLE VOLUME FROM BRIDGE @ 6880FT TO SURFACE CASING =2040 CUBIC FEET

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING FROM BRIDGE @ 6880FT TO SURFACE CASING = 1450 CUBIC FEET

SERVICE ORDER: #3531975

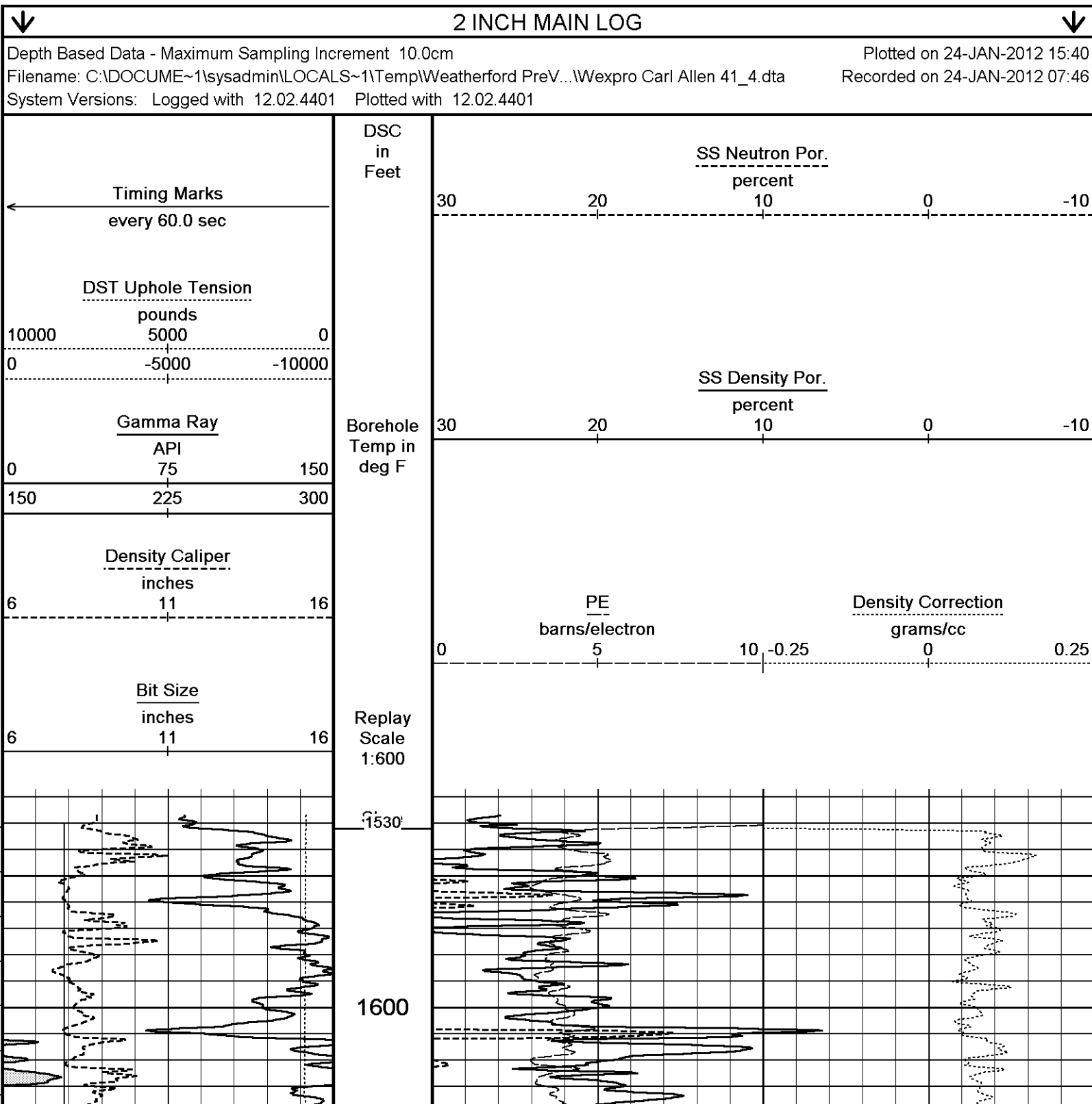
OPERATOR: R.MORITZ

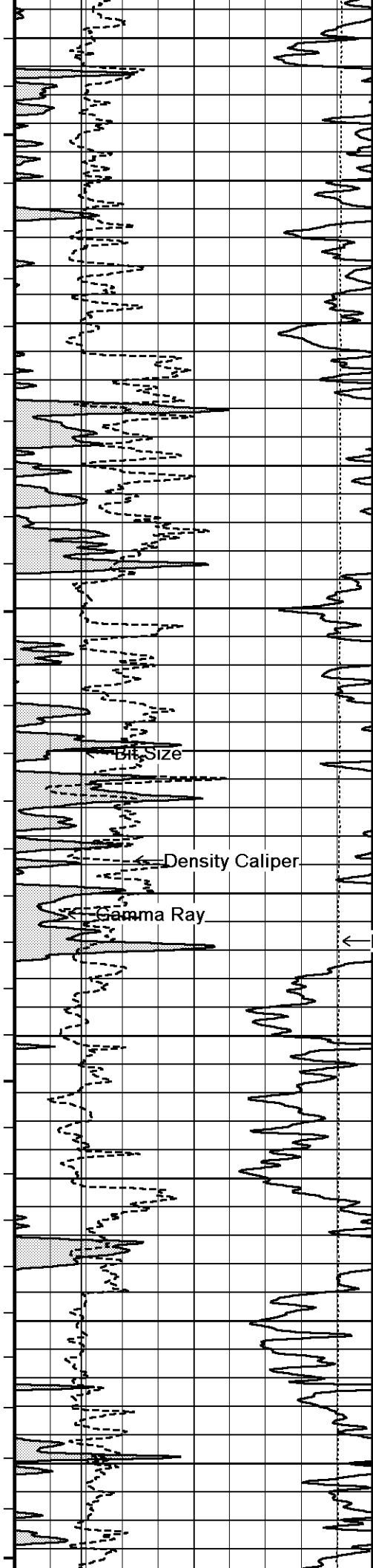
M.LAMOREAUX

T.BENICH

RIG: SST 88

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.





97°

1700

98°

1800

99°

1900

100°

2000

101°

2100

102°

SS Density Por

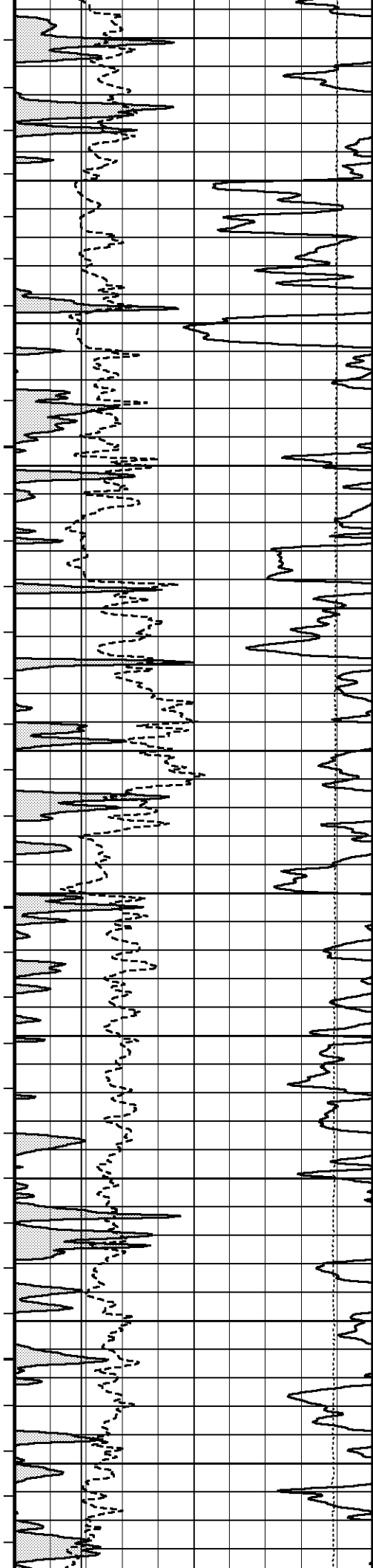
DST Uphole Tension

Bit Size

Density Caliper

Gamma Ray

Density Correction



2200

103°

2300

104°

2400

106°

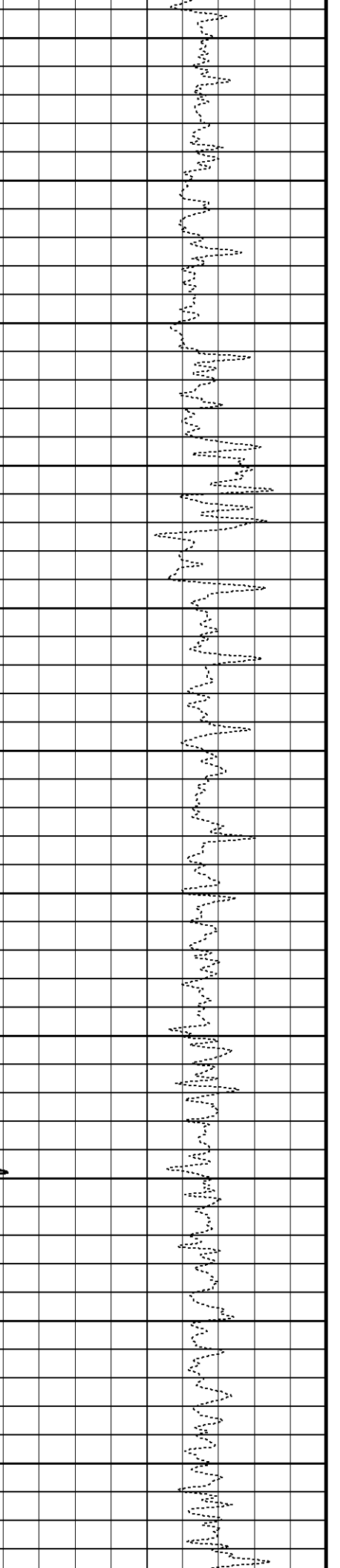
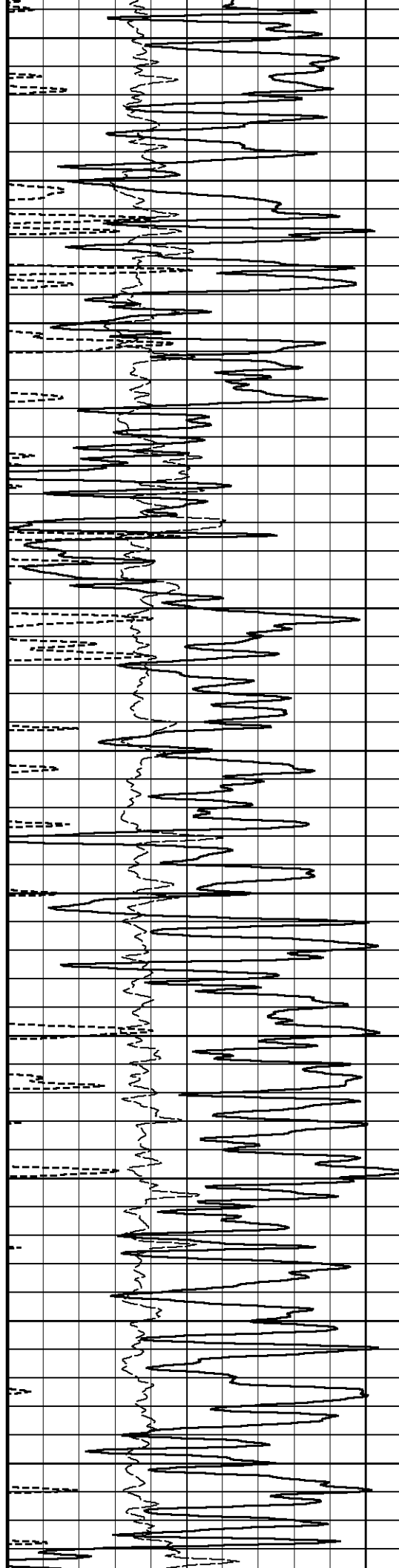
2500

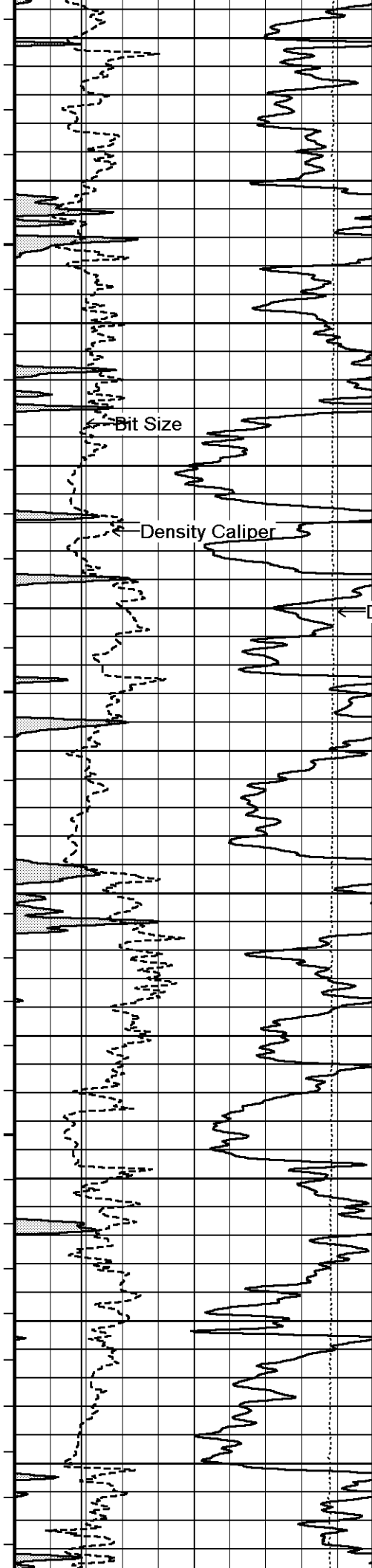
107°

2600

109°

2700





110°

2800

110°

2900

111°

3000

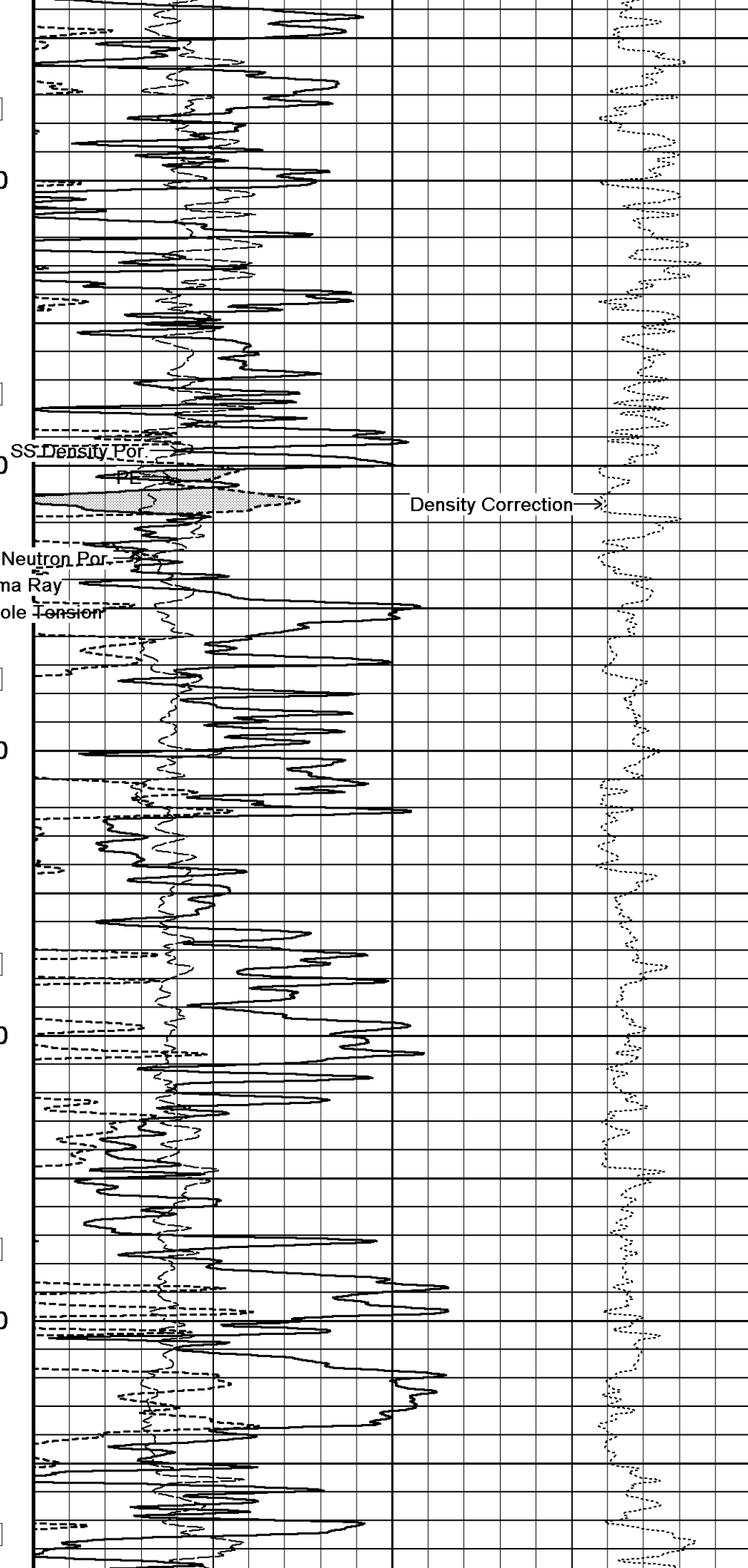
113°

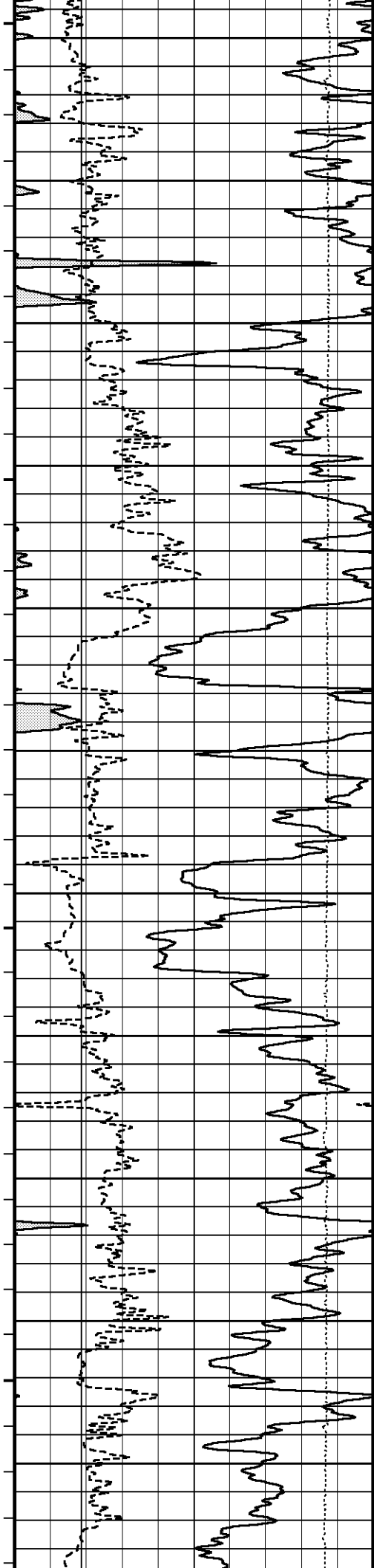
3100

114°

3200

116°





3300

116°

3400

117°

3500

118°

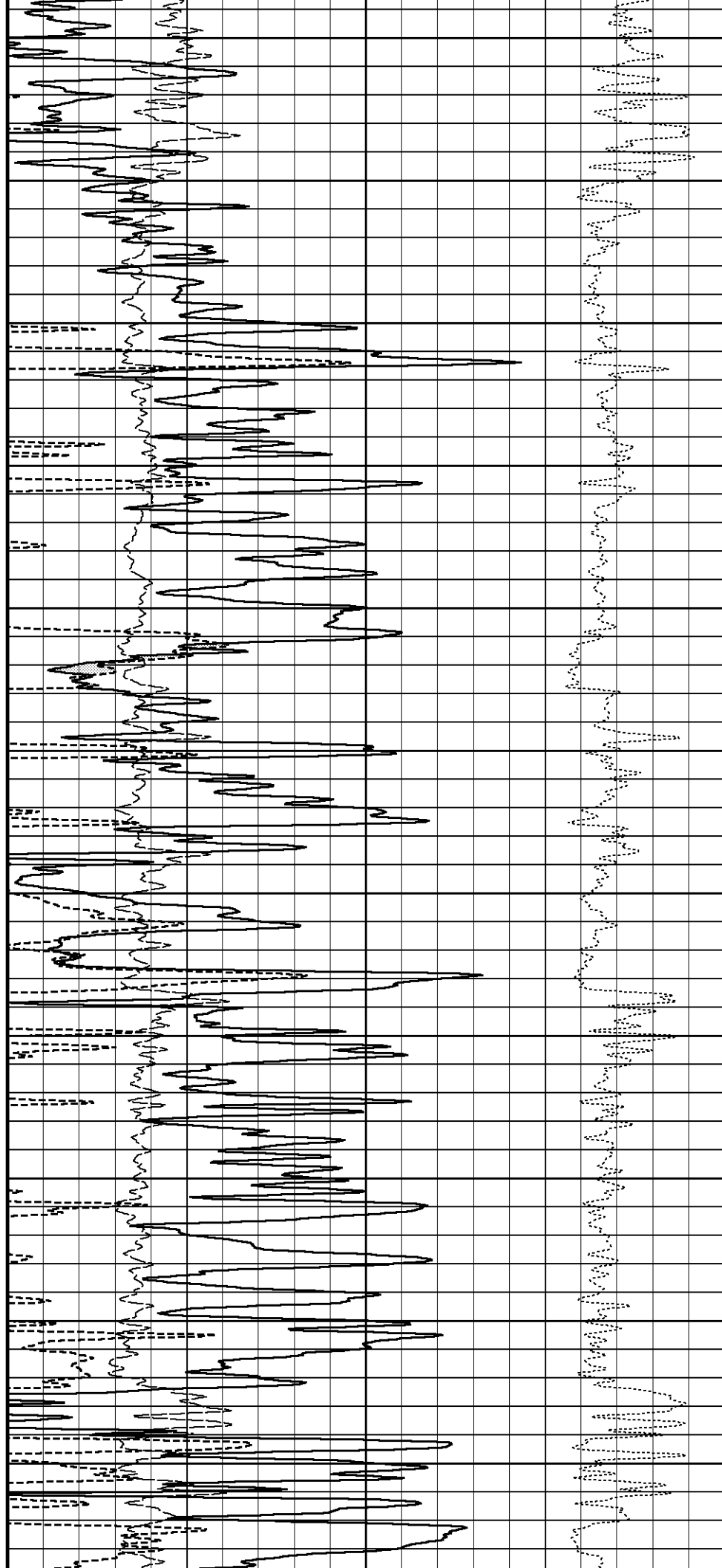
3600

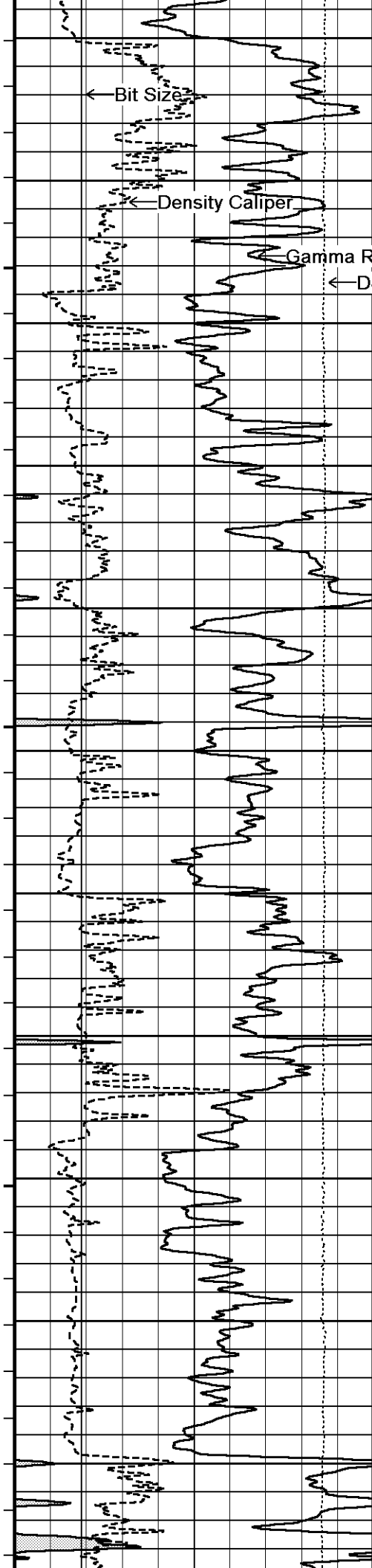
120°

3700

121°

3800





122°

3900

123°

4000

125°

4100

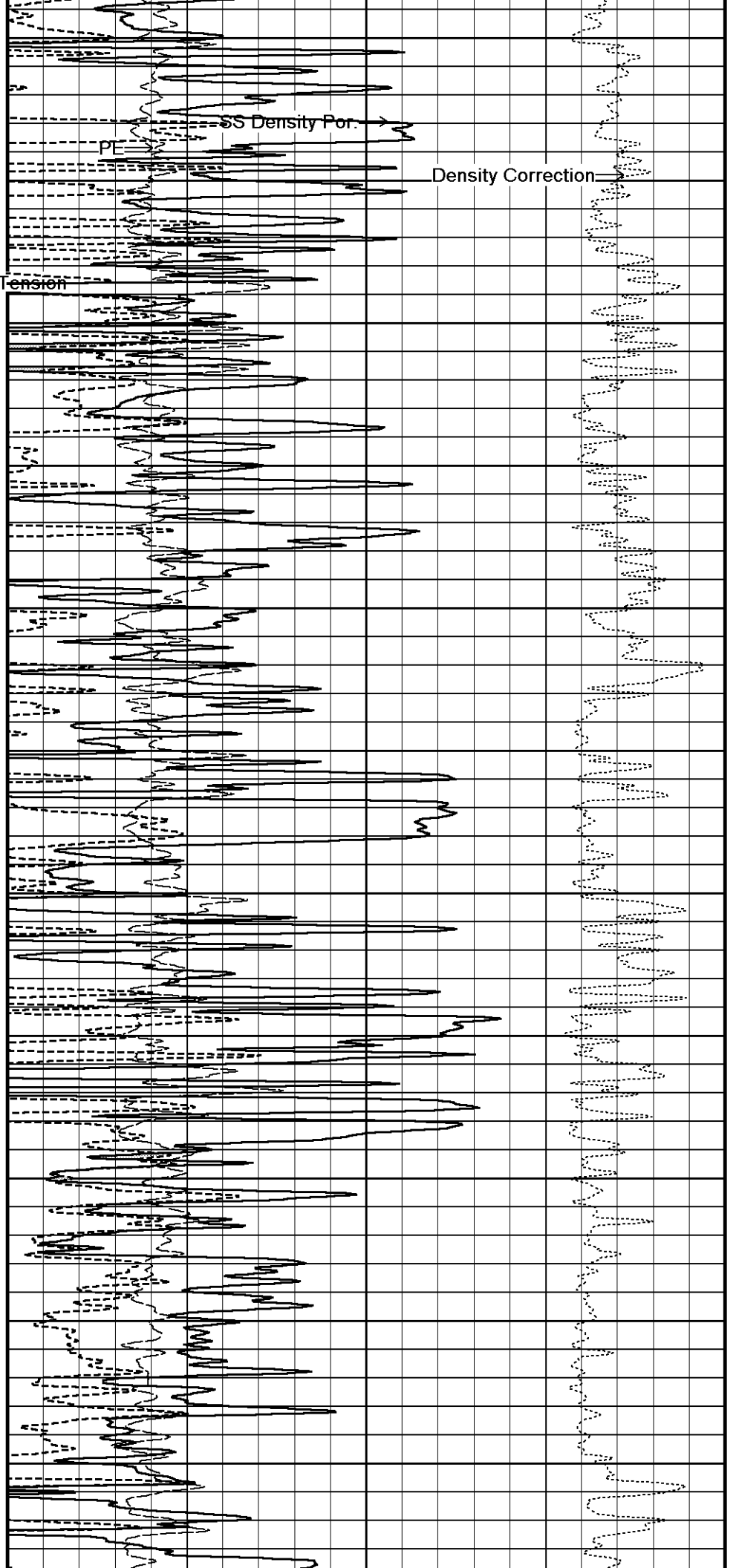
126°

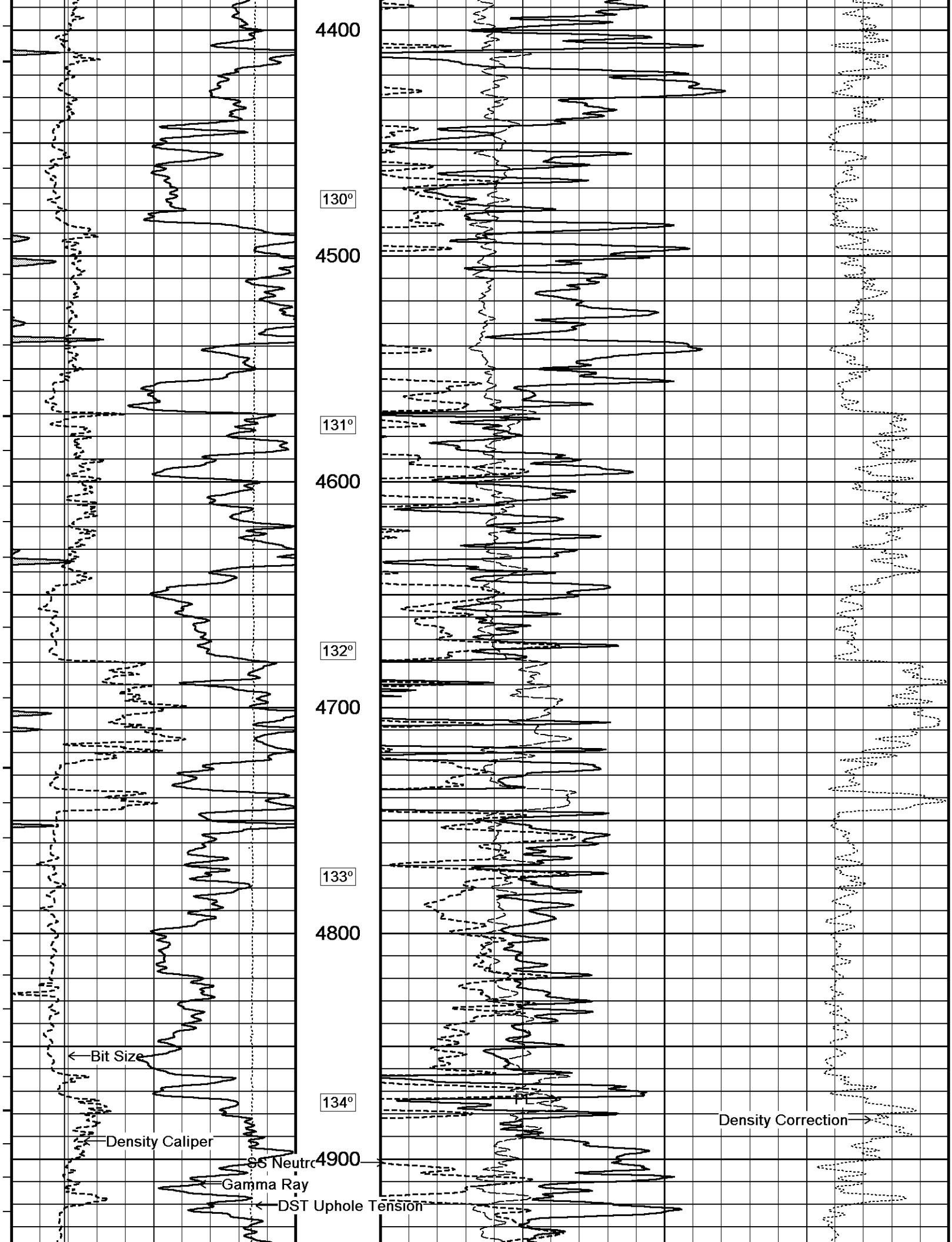
4200

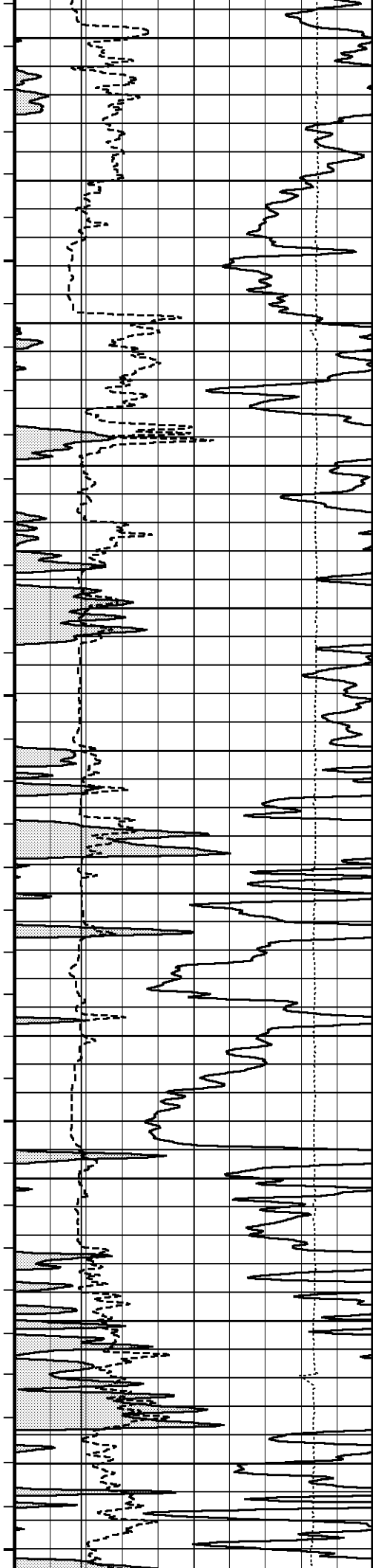
127°

4300

128°







136°

5000

137°

5100

138°

5200

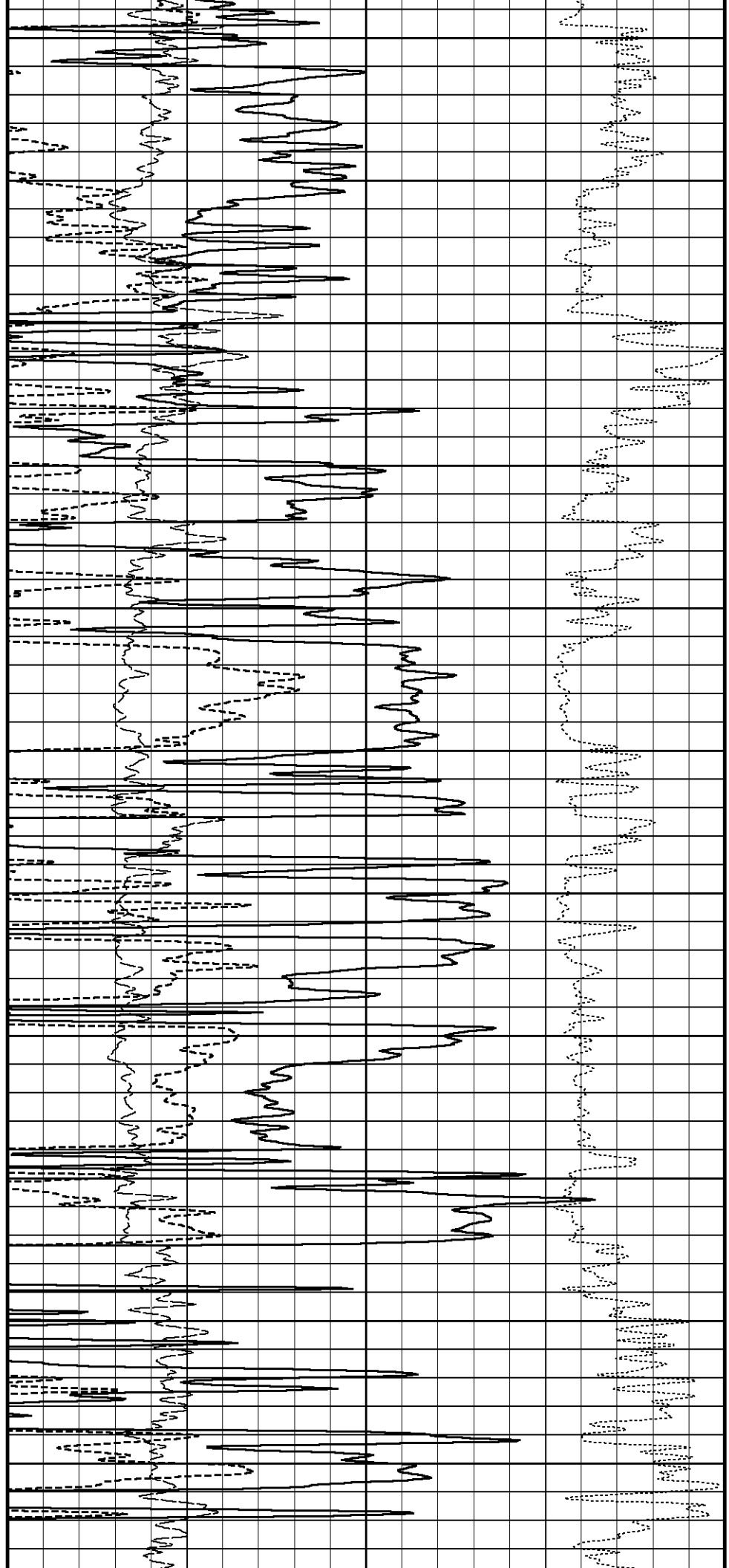
140°

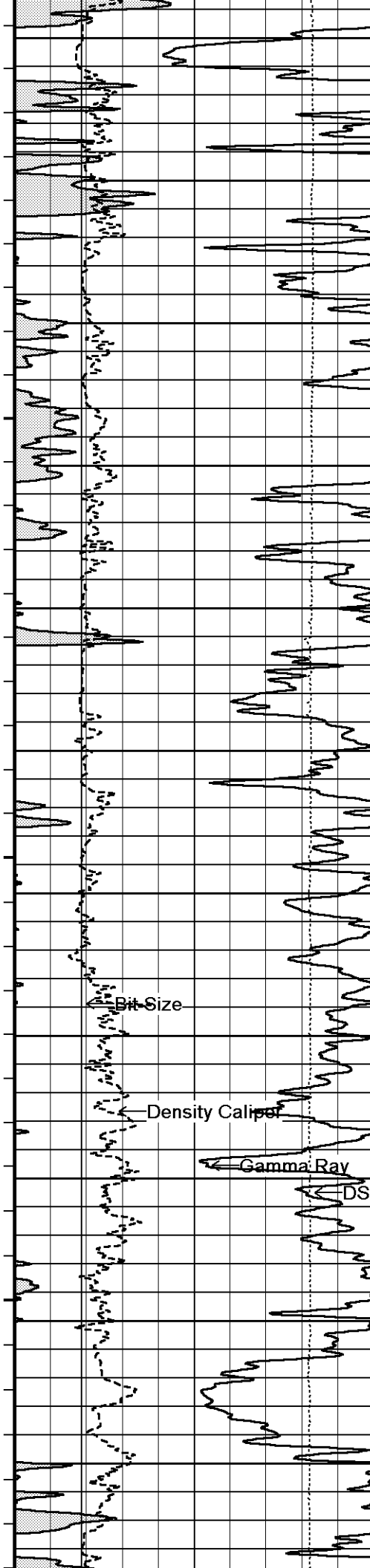
5300

142°

5400

145°





5500

147°

5600

148°

5700

150°

5800

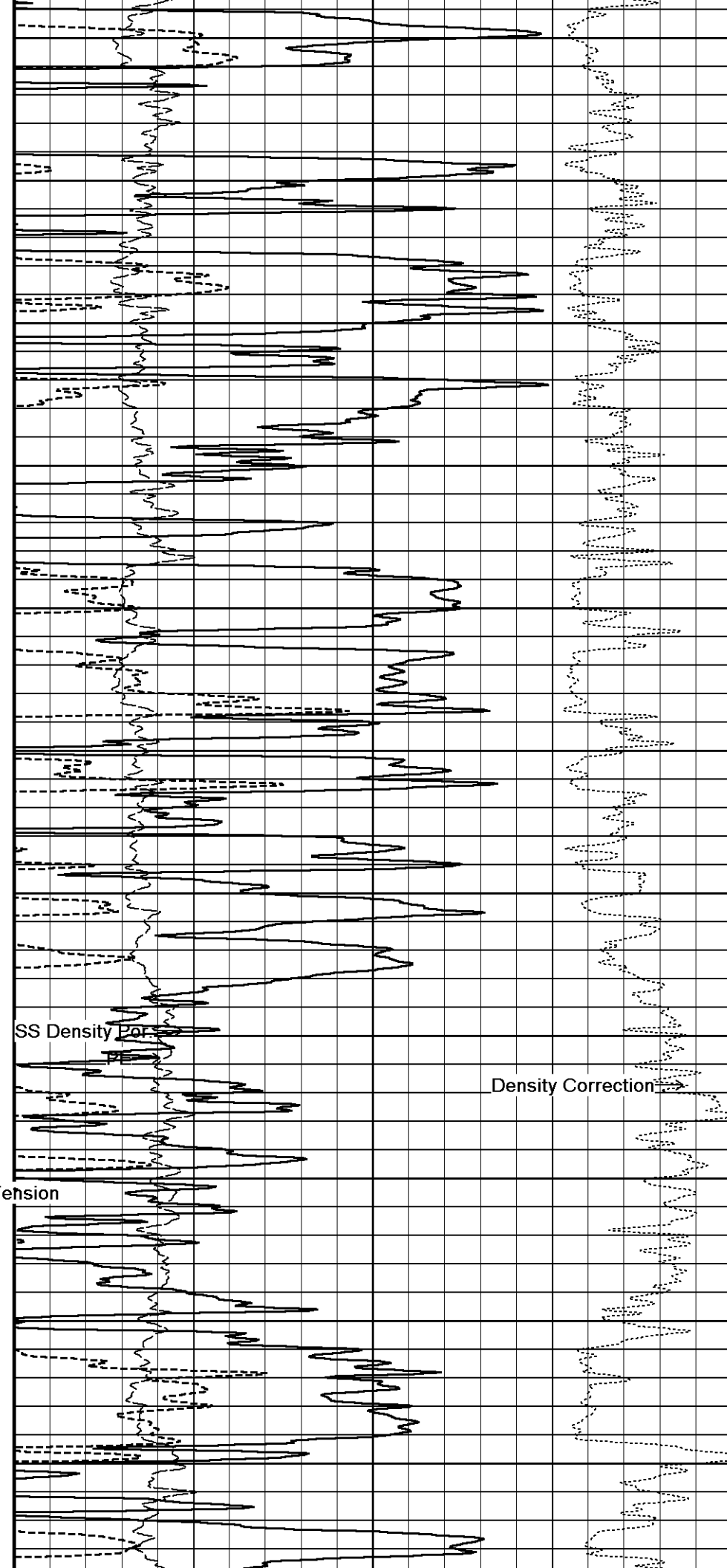
152°

5900

DST Uprate Tension

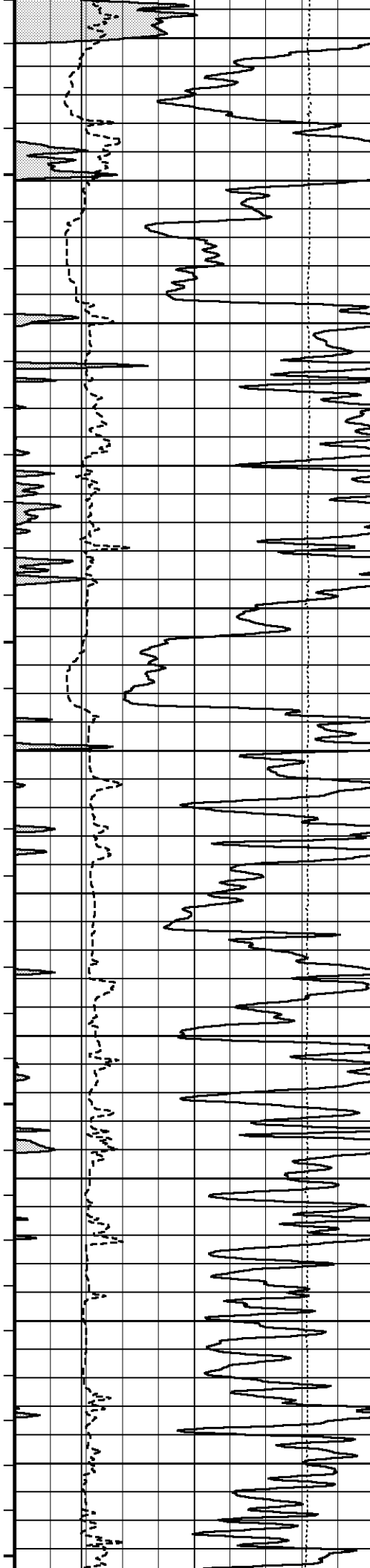
153°

6000



SS Density Por

Density Correction



154°

6100

156°

6200

158°

6300

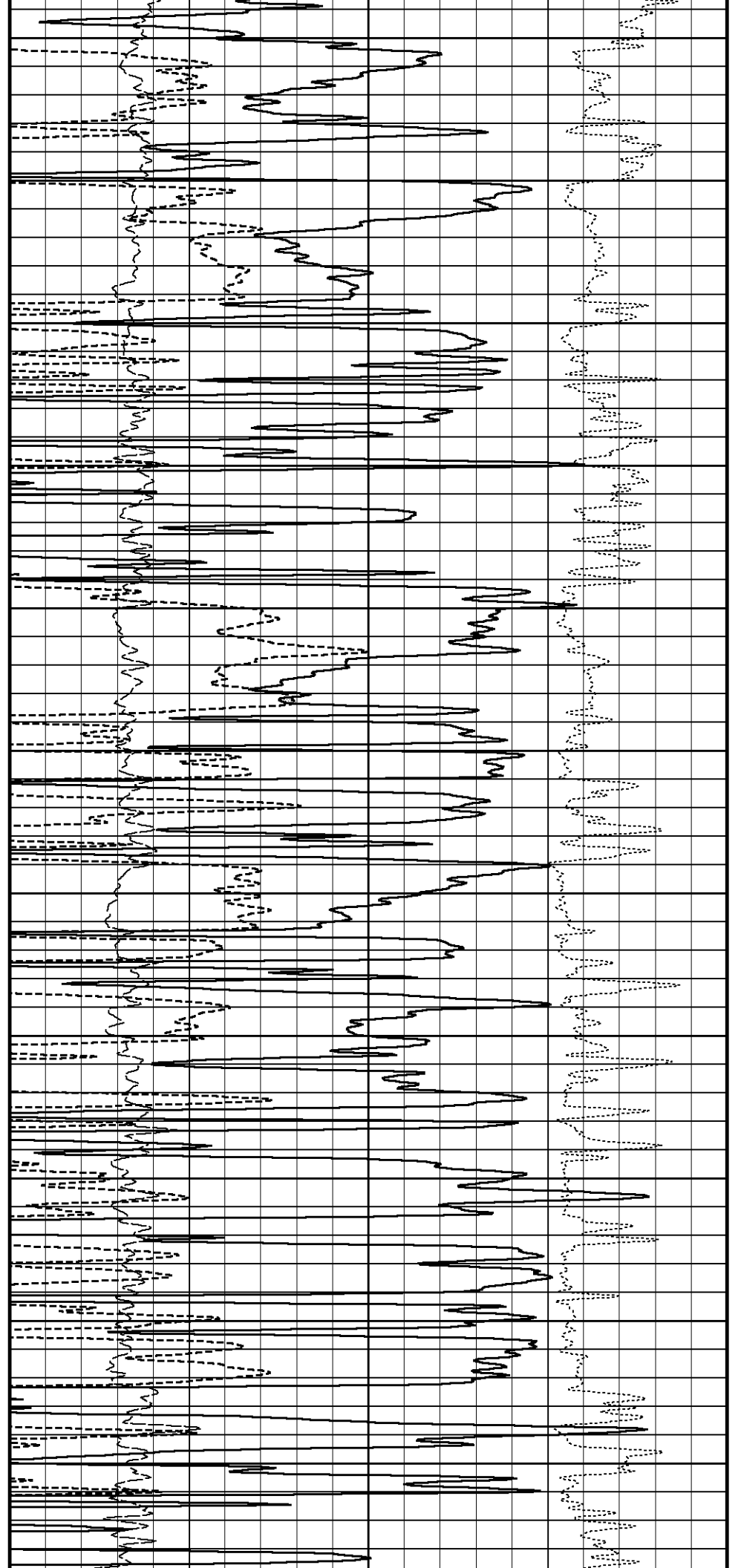
159°

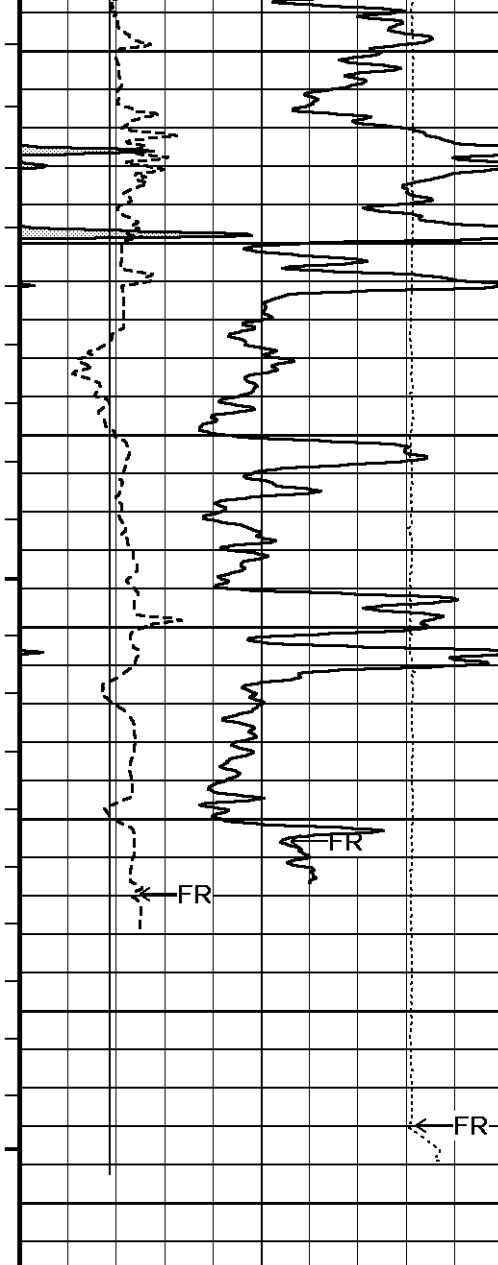
6400

161°

6500

162°





6600

165°

6700

165°

6800

TD

6900

DSC
in
FeetTiming Marks
every 60.0 secDST Uphole Tension
pounds

10000	5000	0
0	-5000	-10000

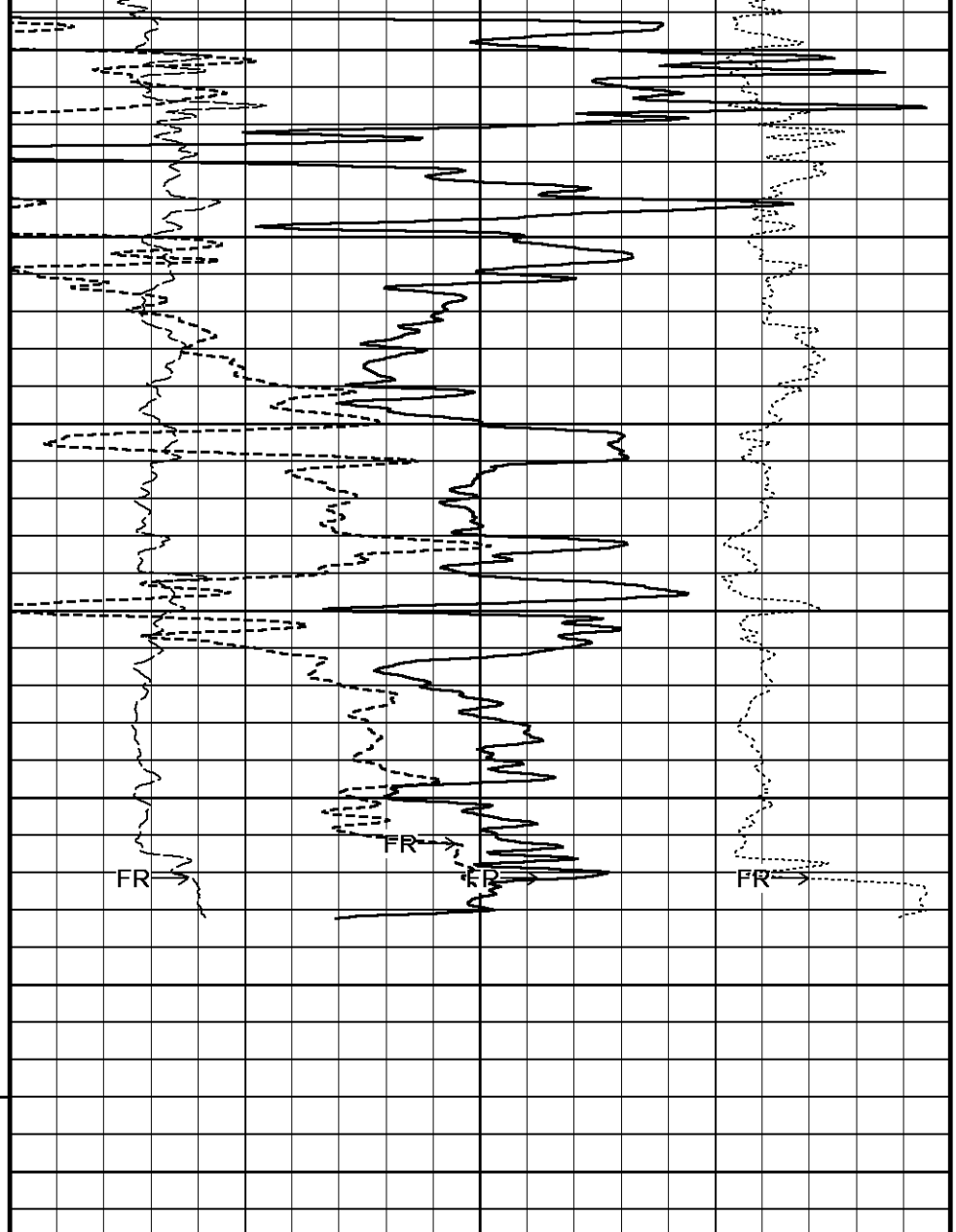
Gamma Ray

API		
0	75	150
150	225	300

Density Caliper
inches

6	11	16
---	----	----

Bit Size

Borehole
Temp in
deg FSS Neutron Por.
percent

30	20	10	0	-10
----	----	----	---	-----

SS Density Por.
percent

30	20	10	0	-10
----	----	----	---	-----

PE
barns/electron

0	5	10
---	---	----

Density Correction
grams/cc

-0.25	0	0.25
-------	---	------

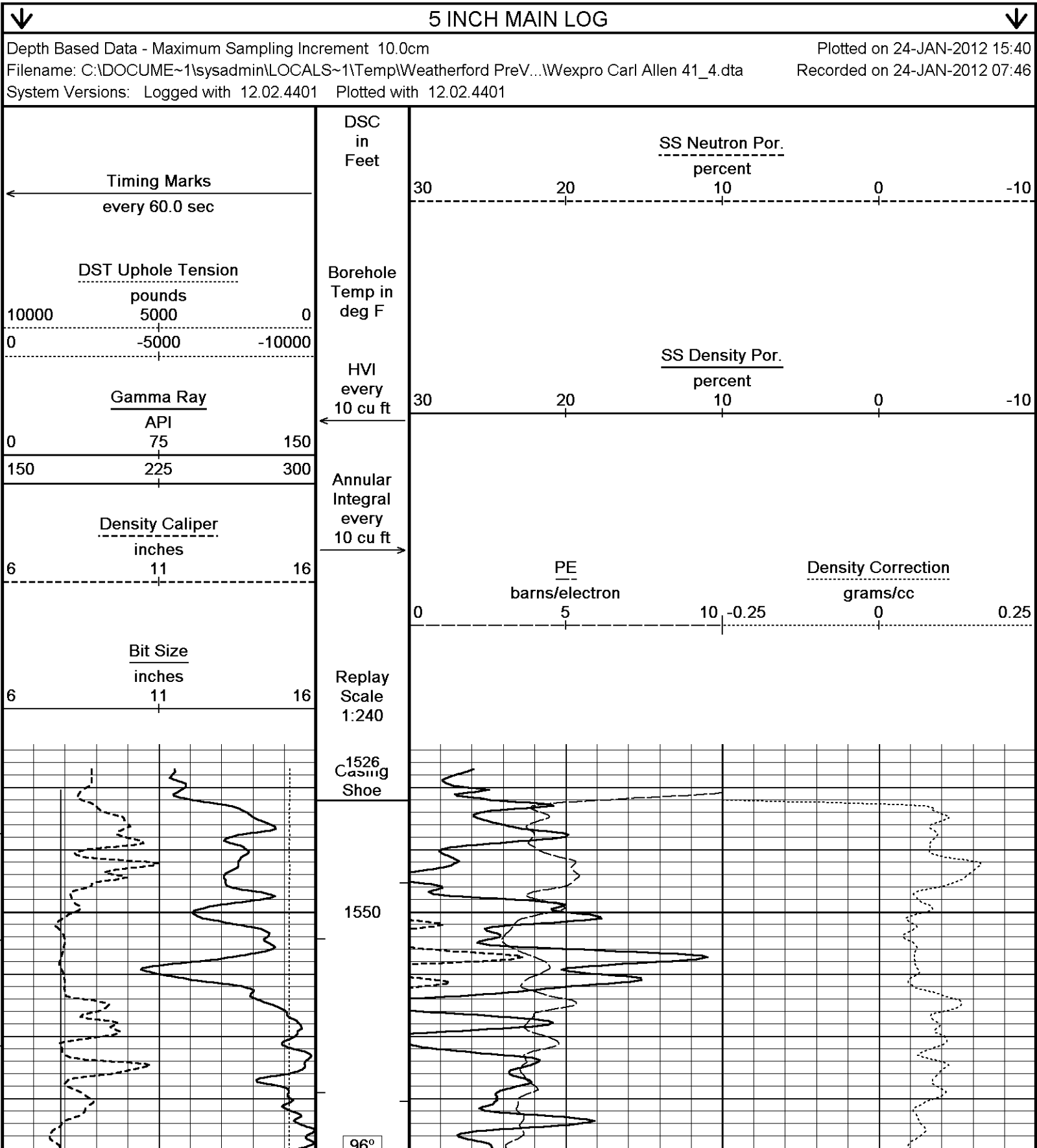
61116

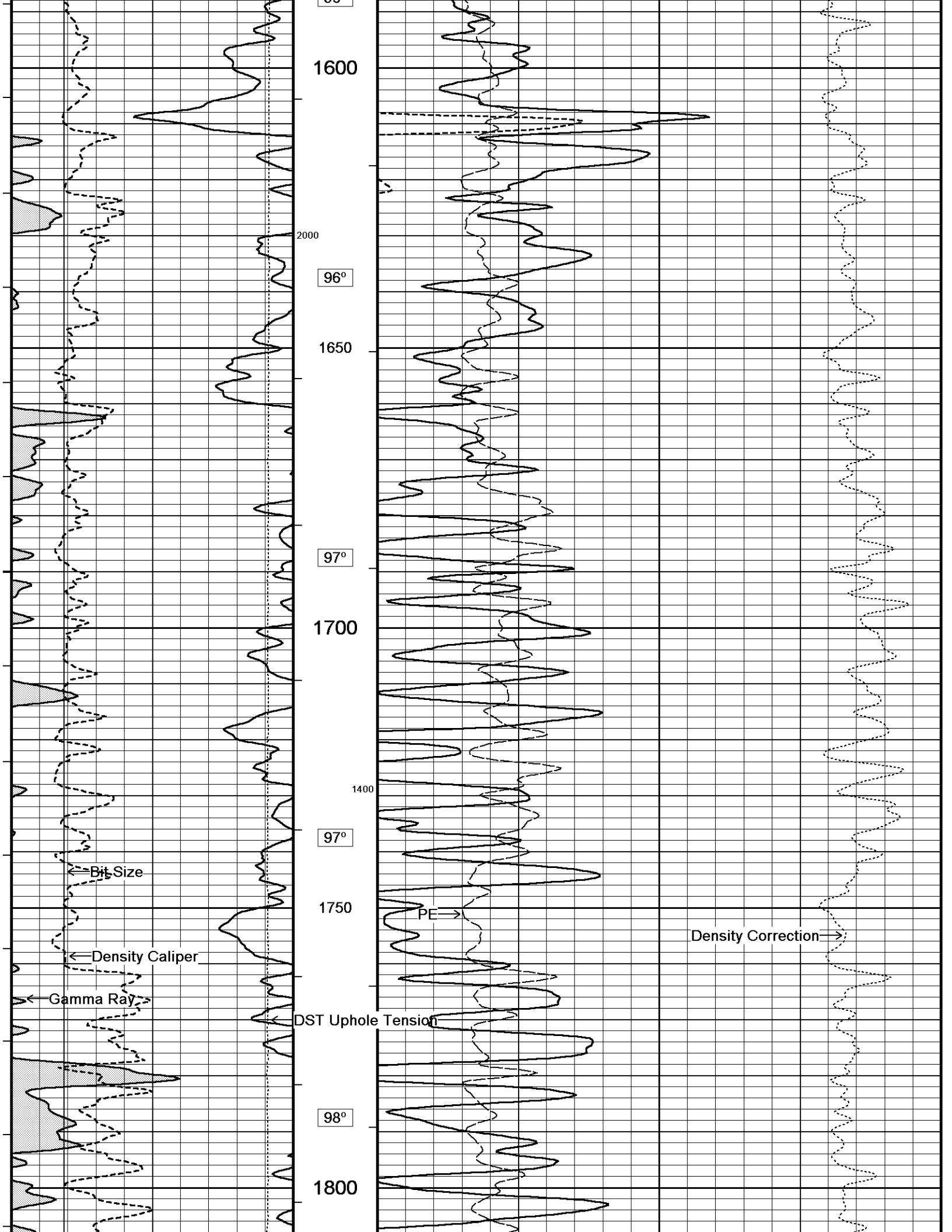
inches

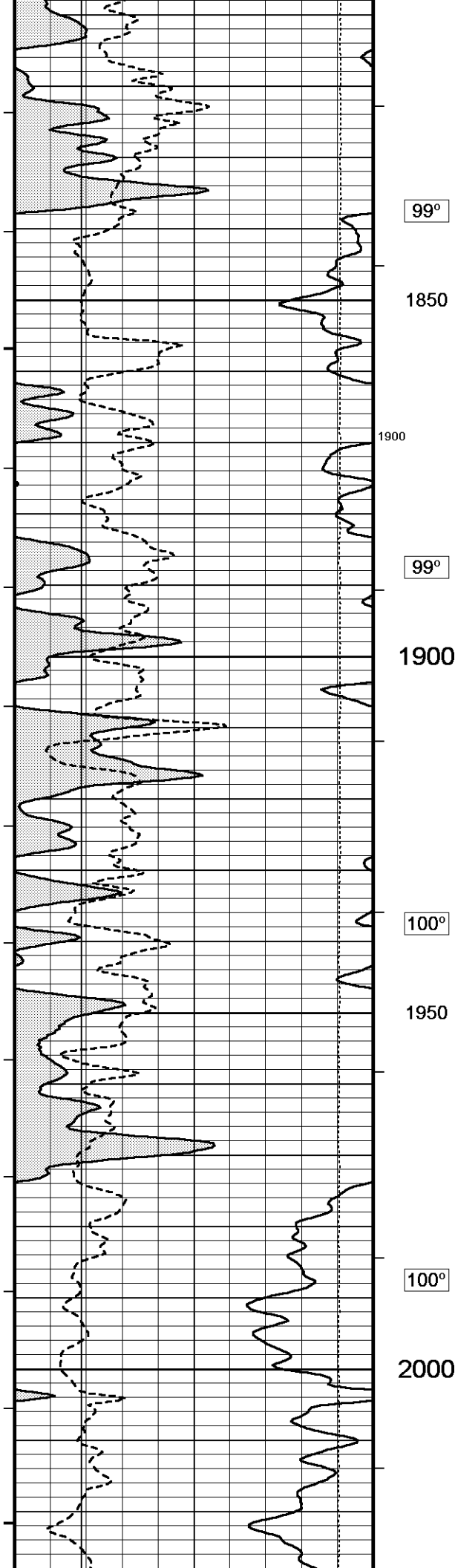
Replay Scale 1:600

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...\Wexpro Carl Allen 41_4.dta
System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

↑2 INCH MAIN LOG↑







99°

1850

1900

99°

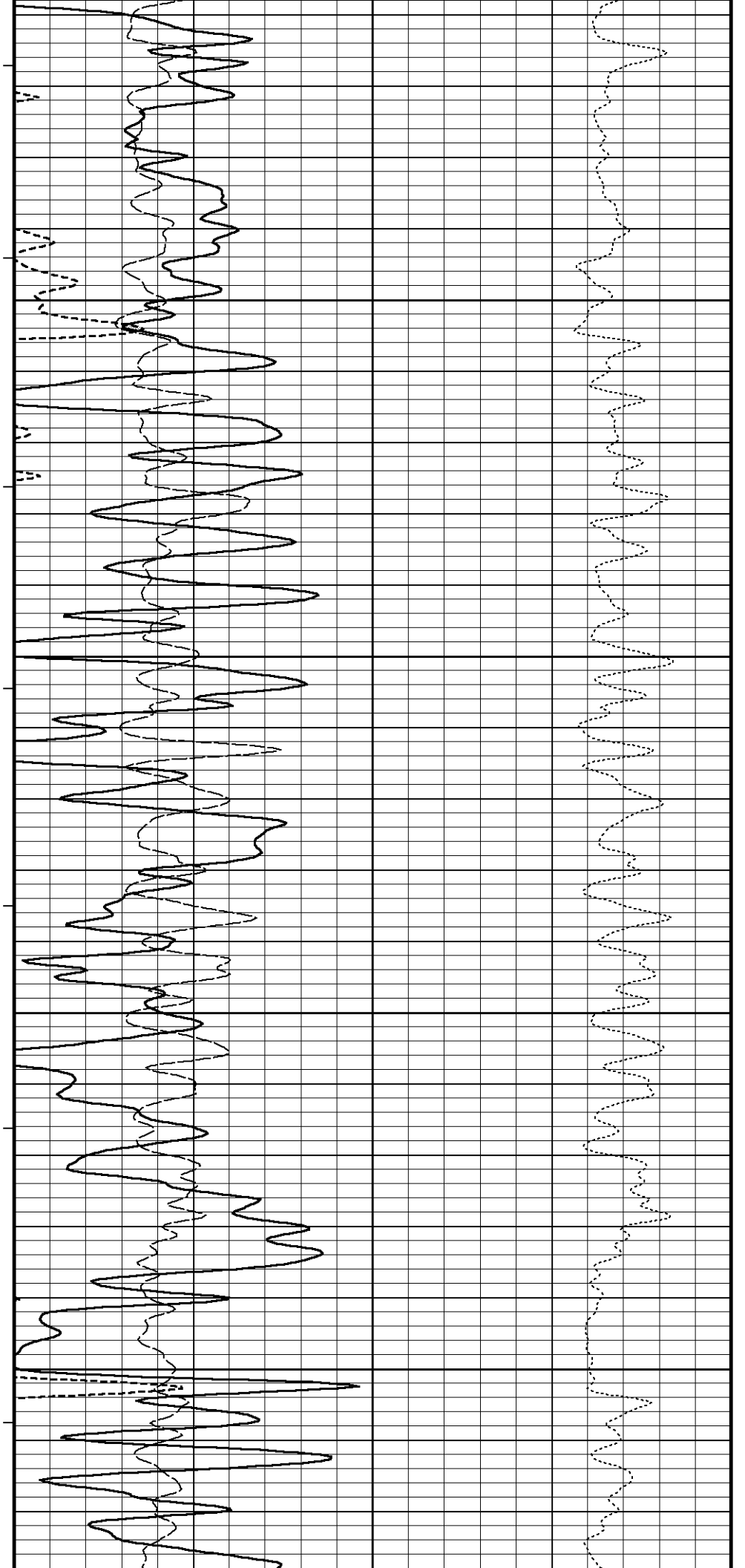
1900

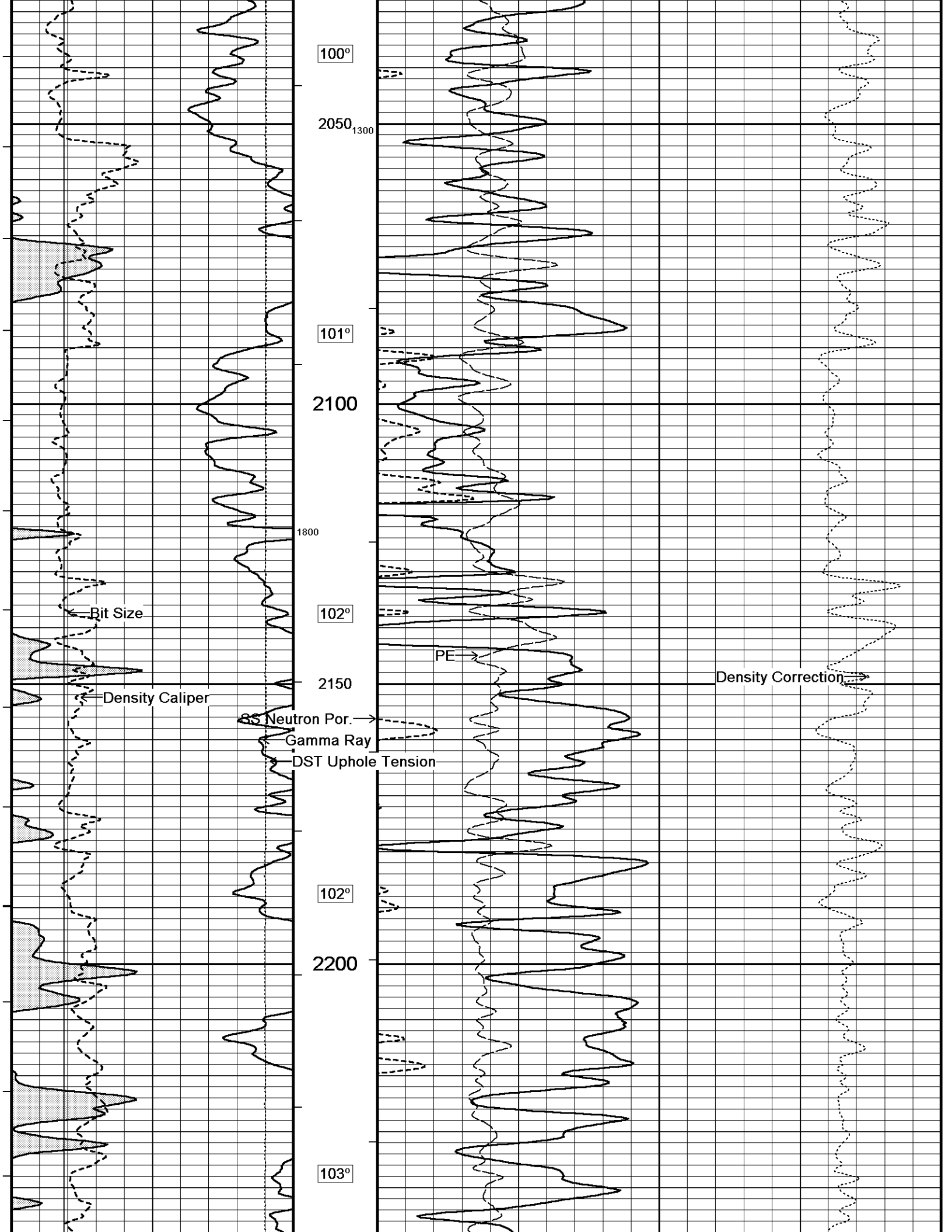
100°

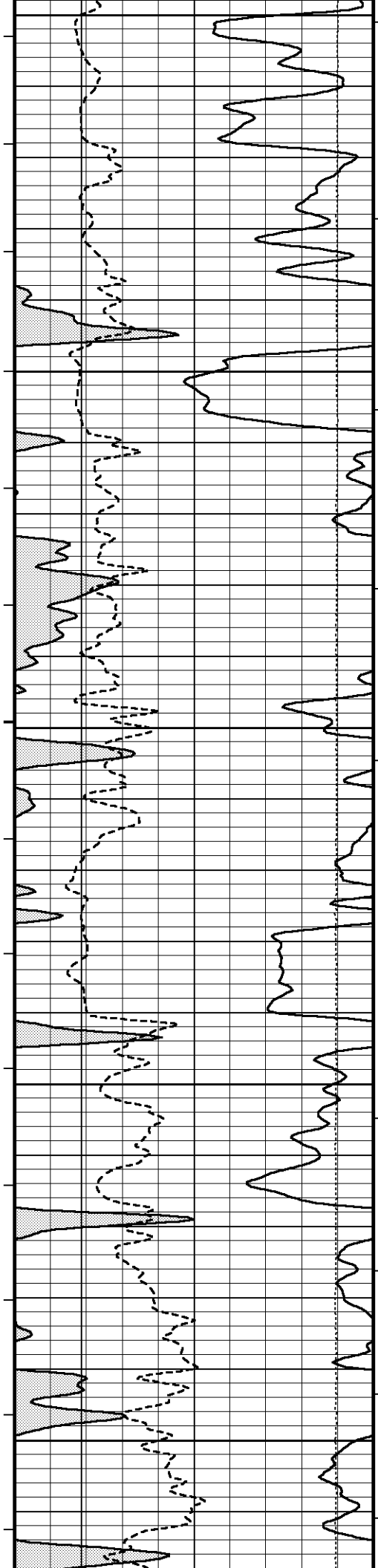
1950

100°

2000







2250

103°

2300

104°

2350

1700

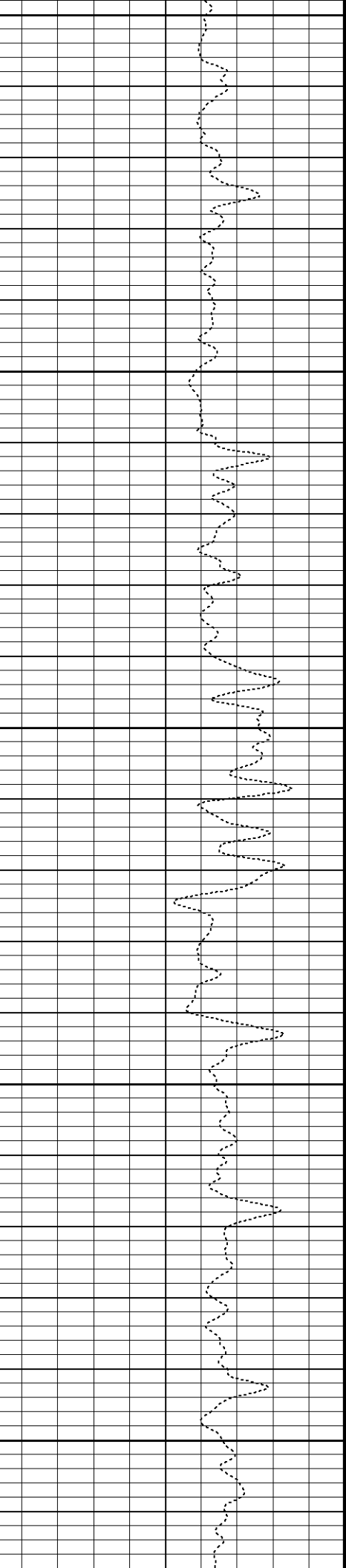
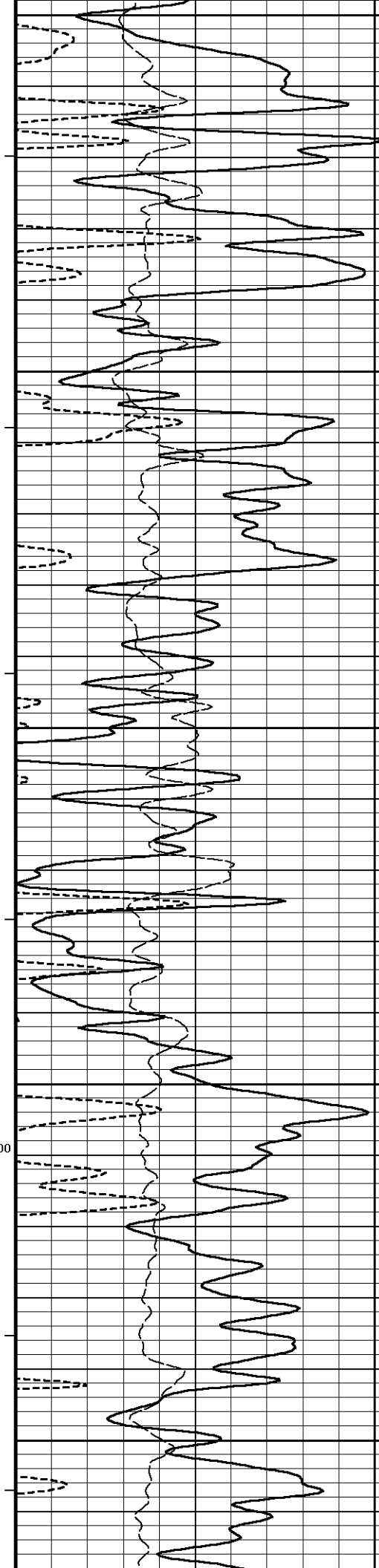
104°

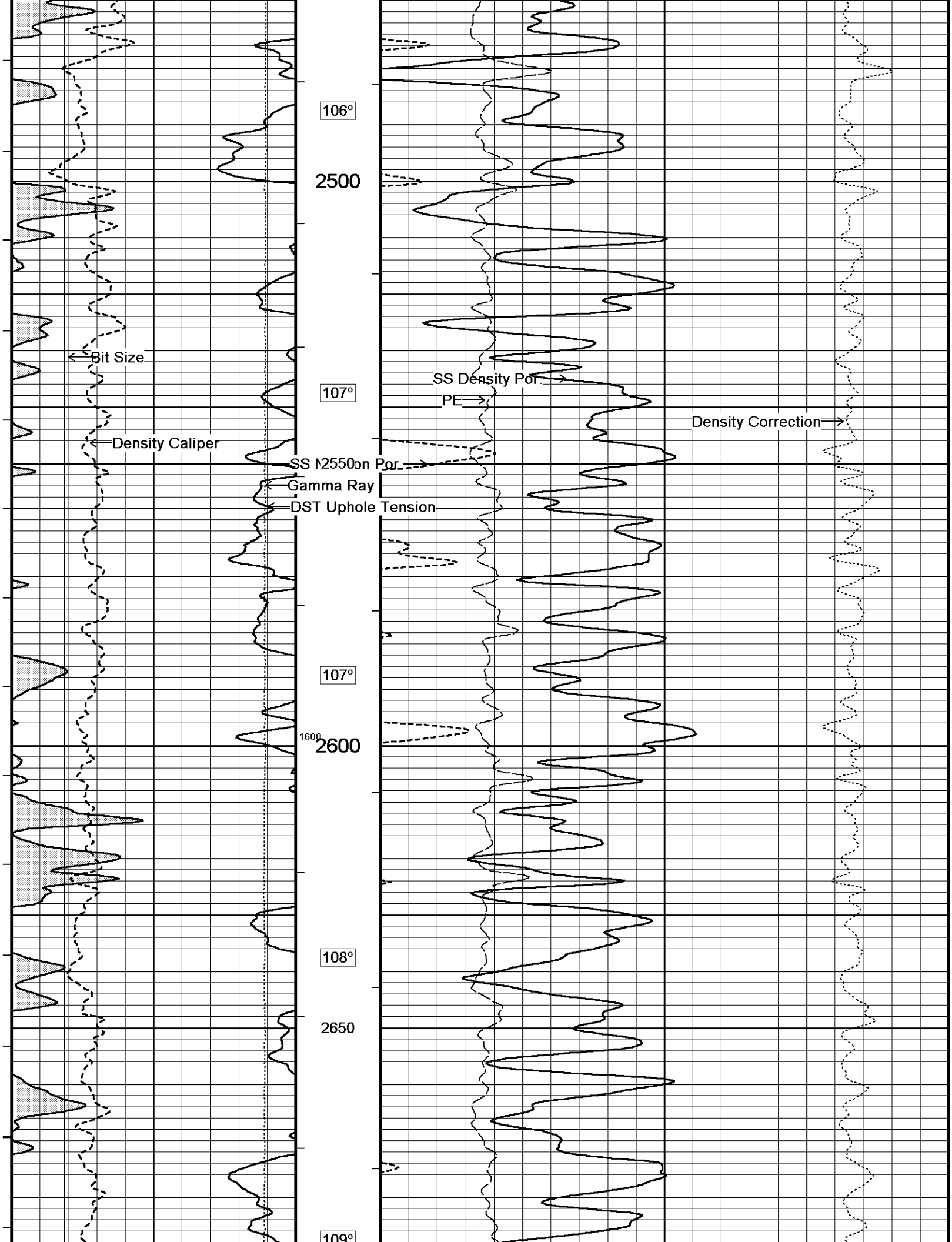
2400

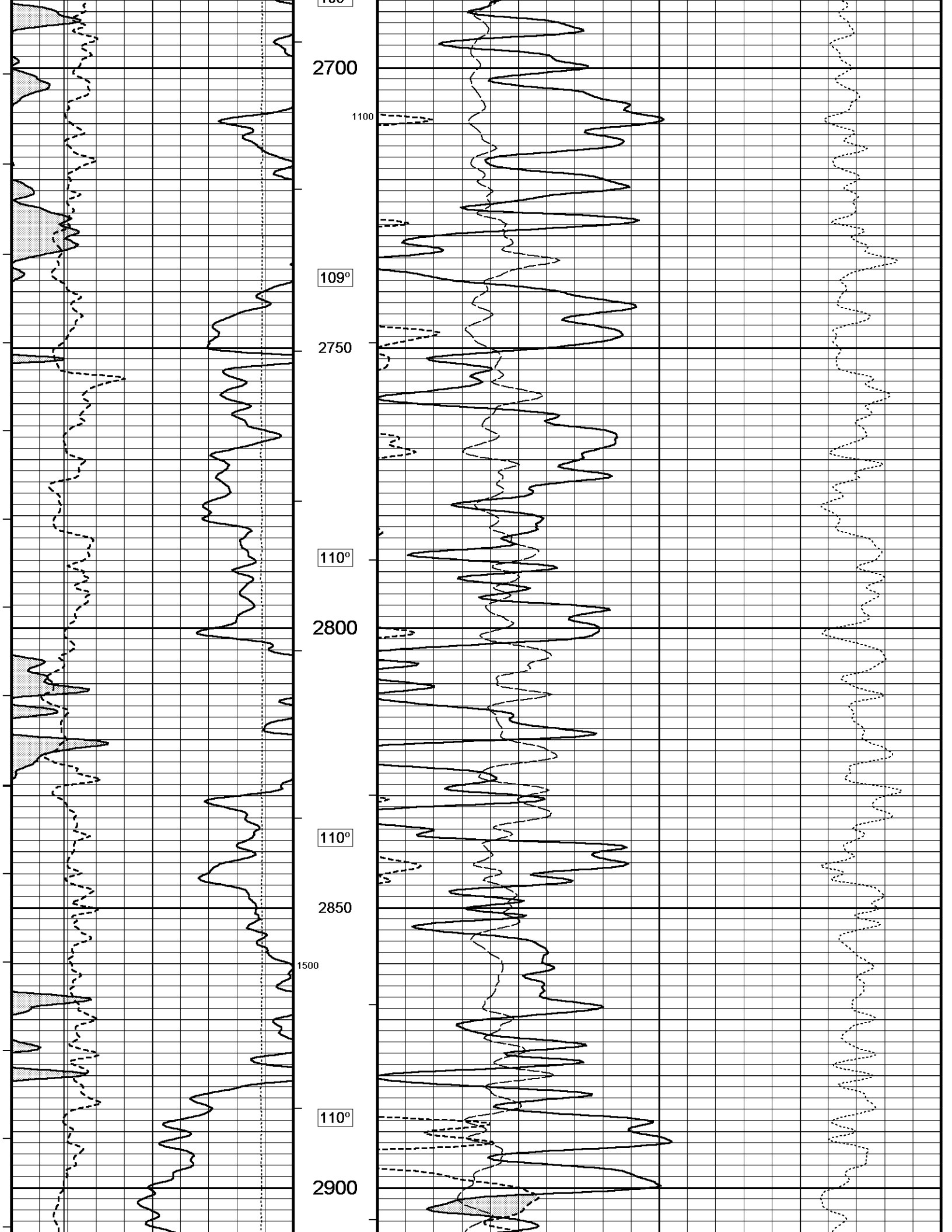
1200

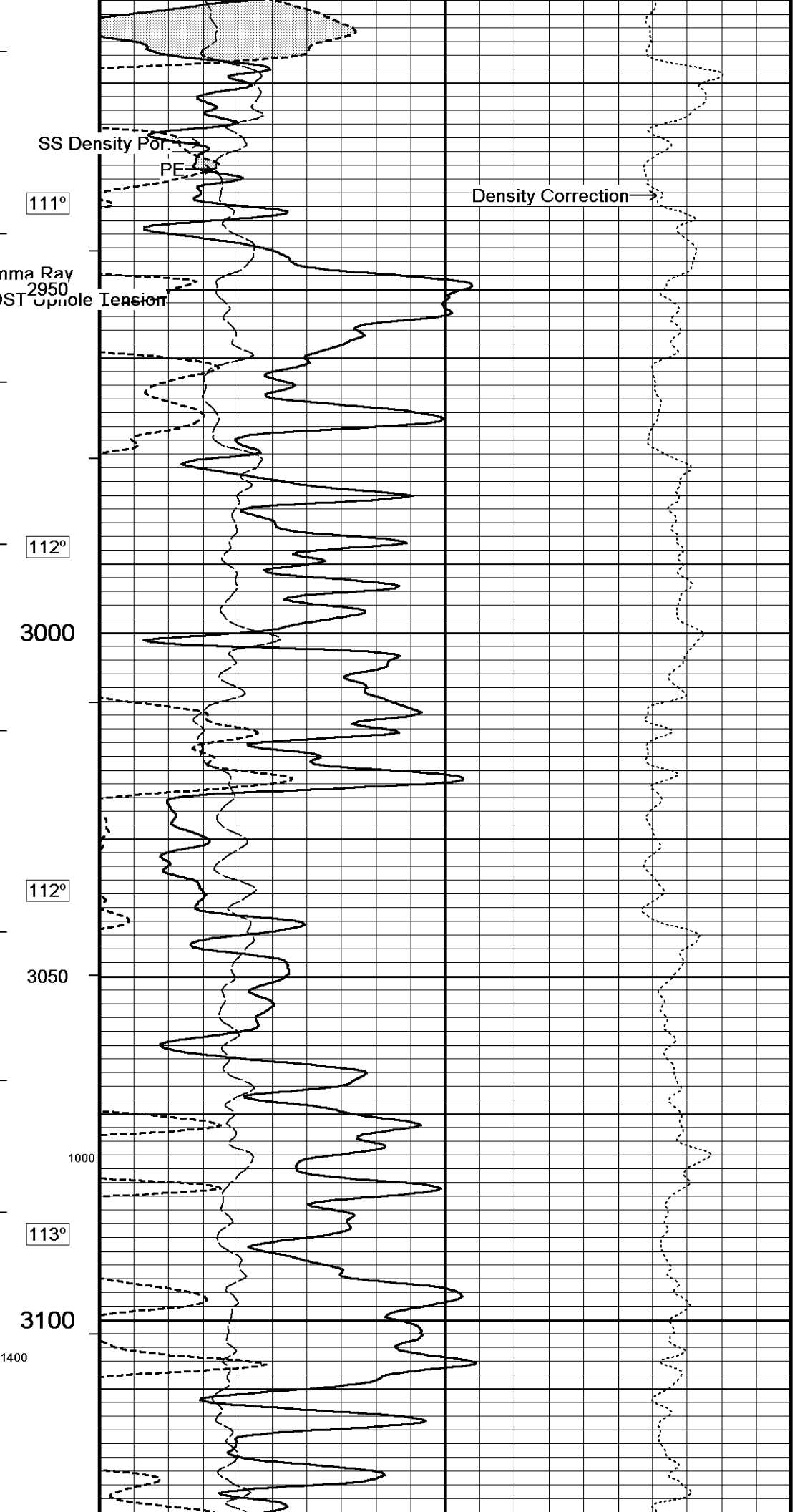
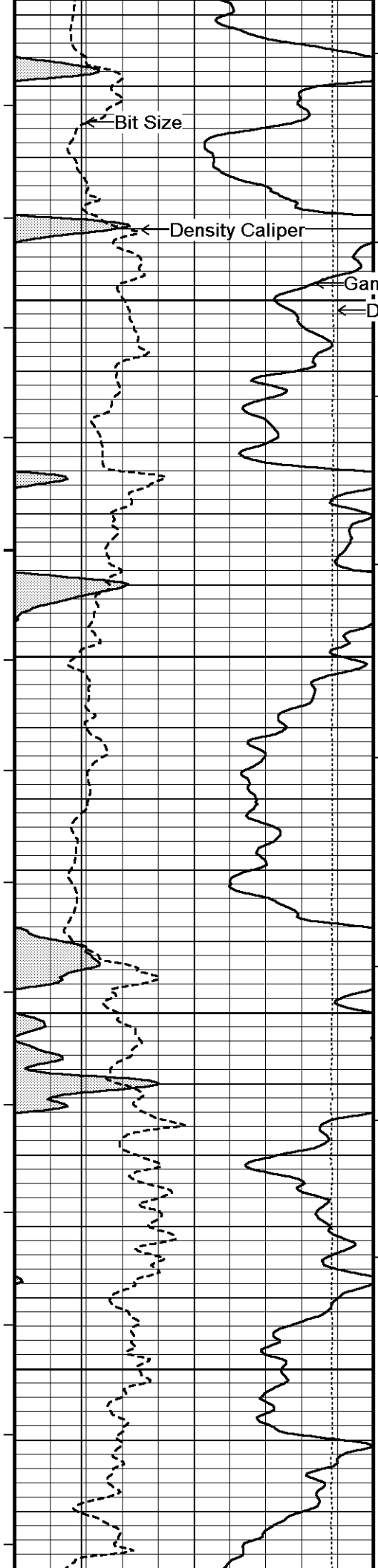
105°

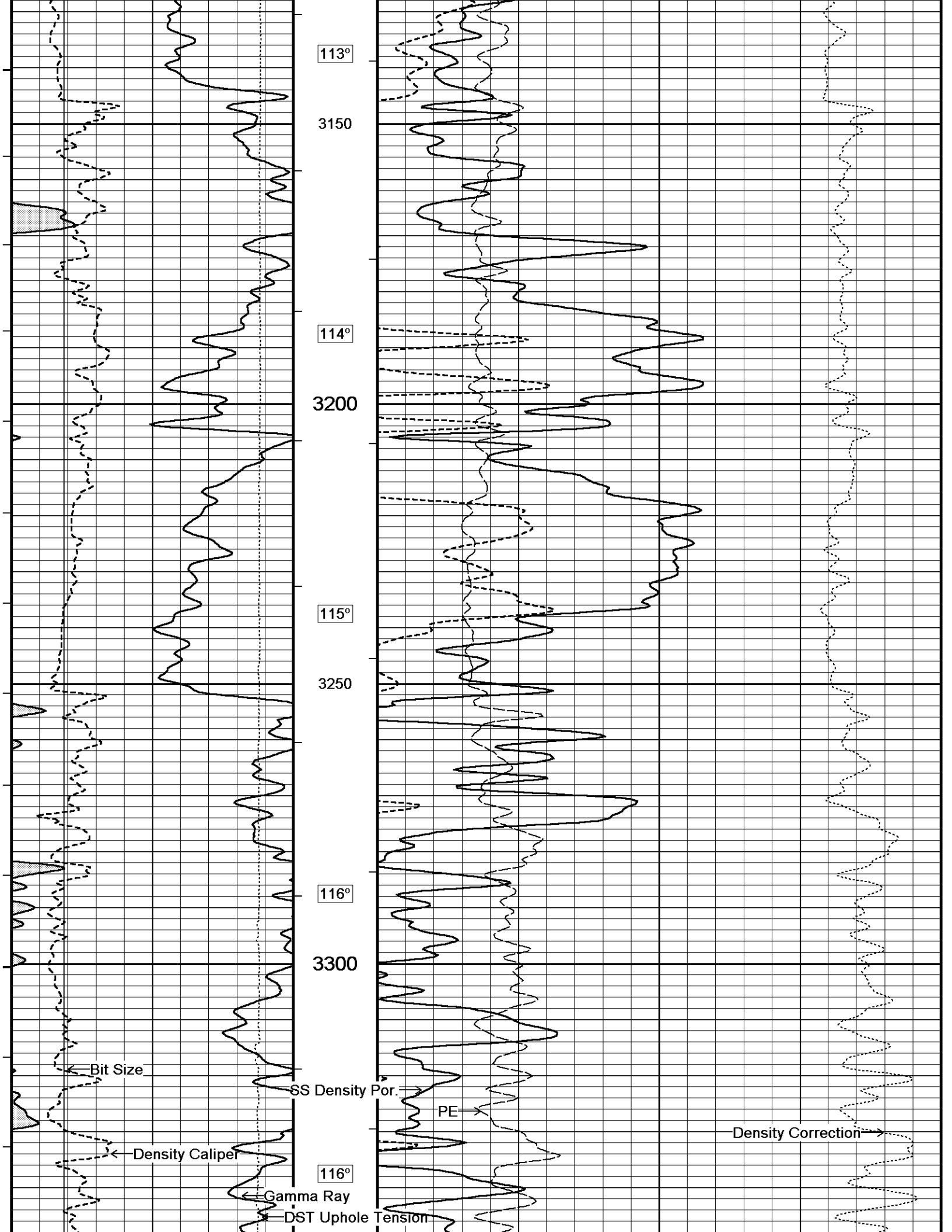
2450

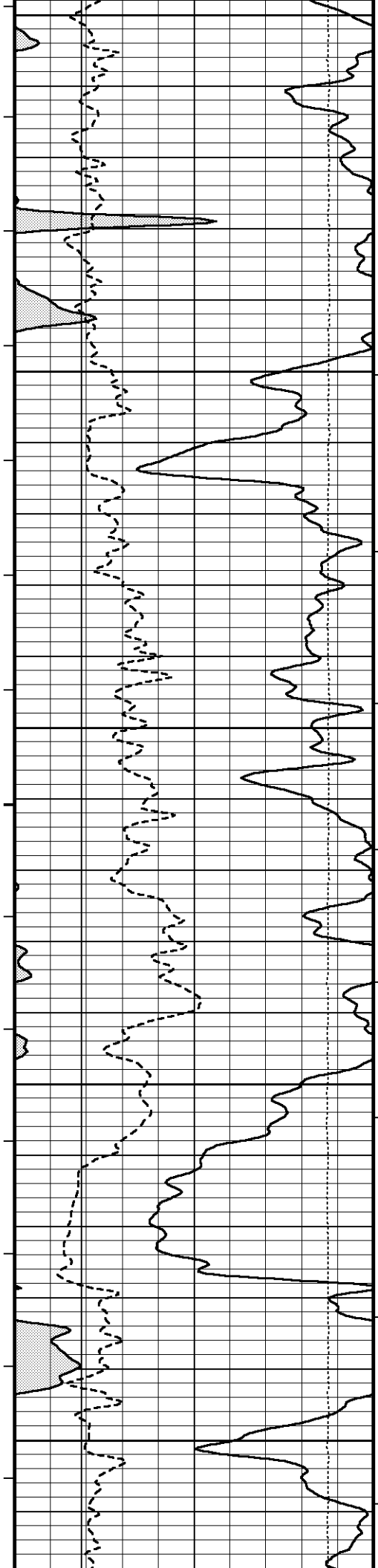




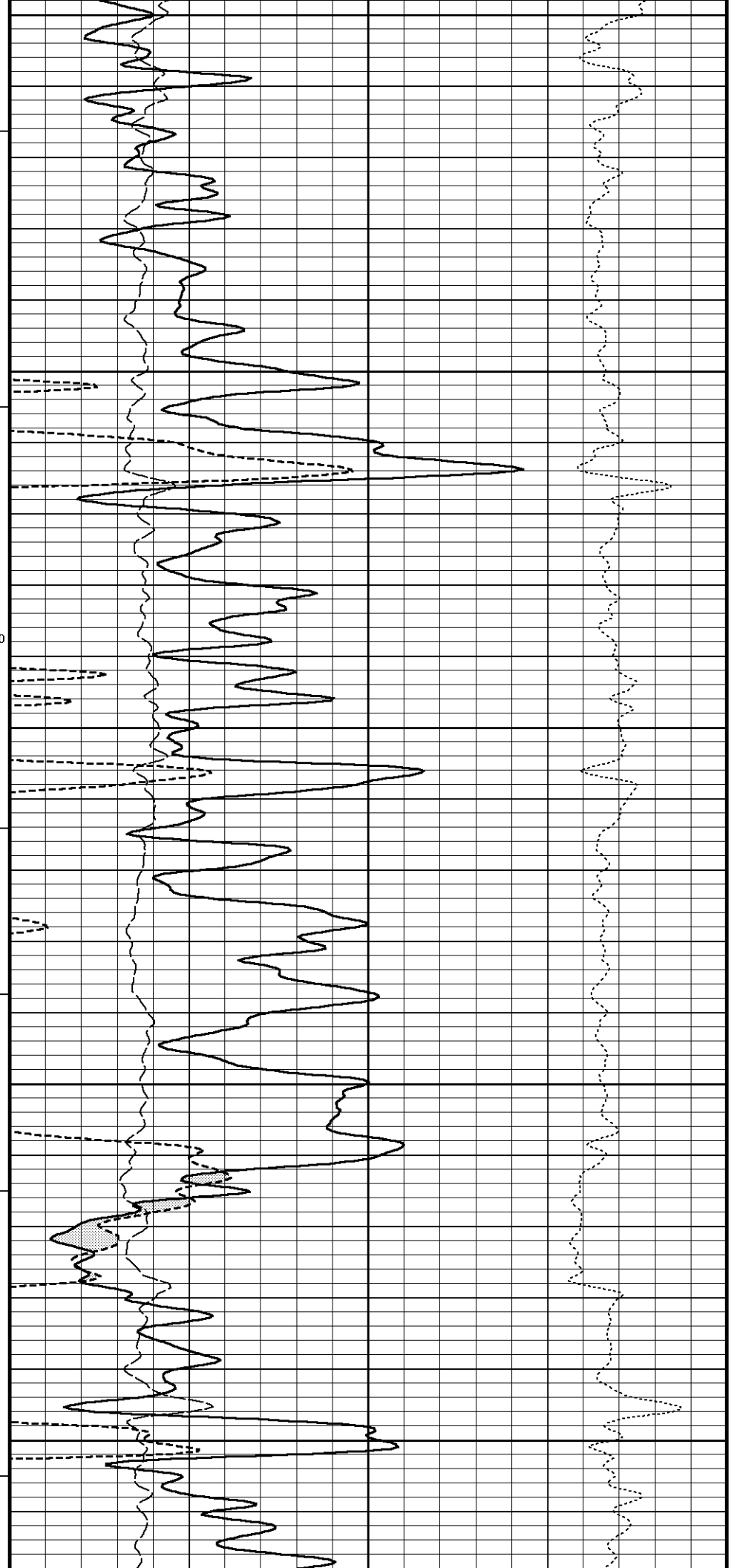


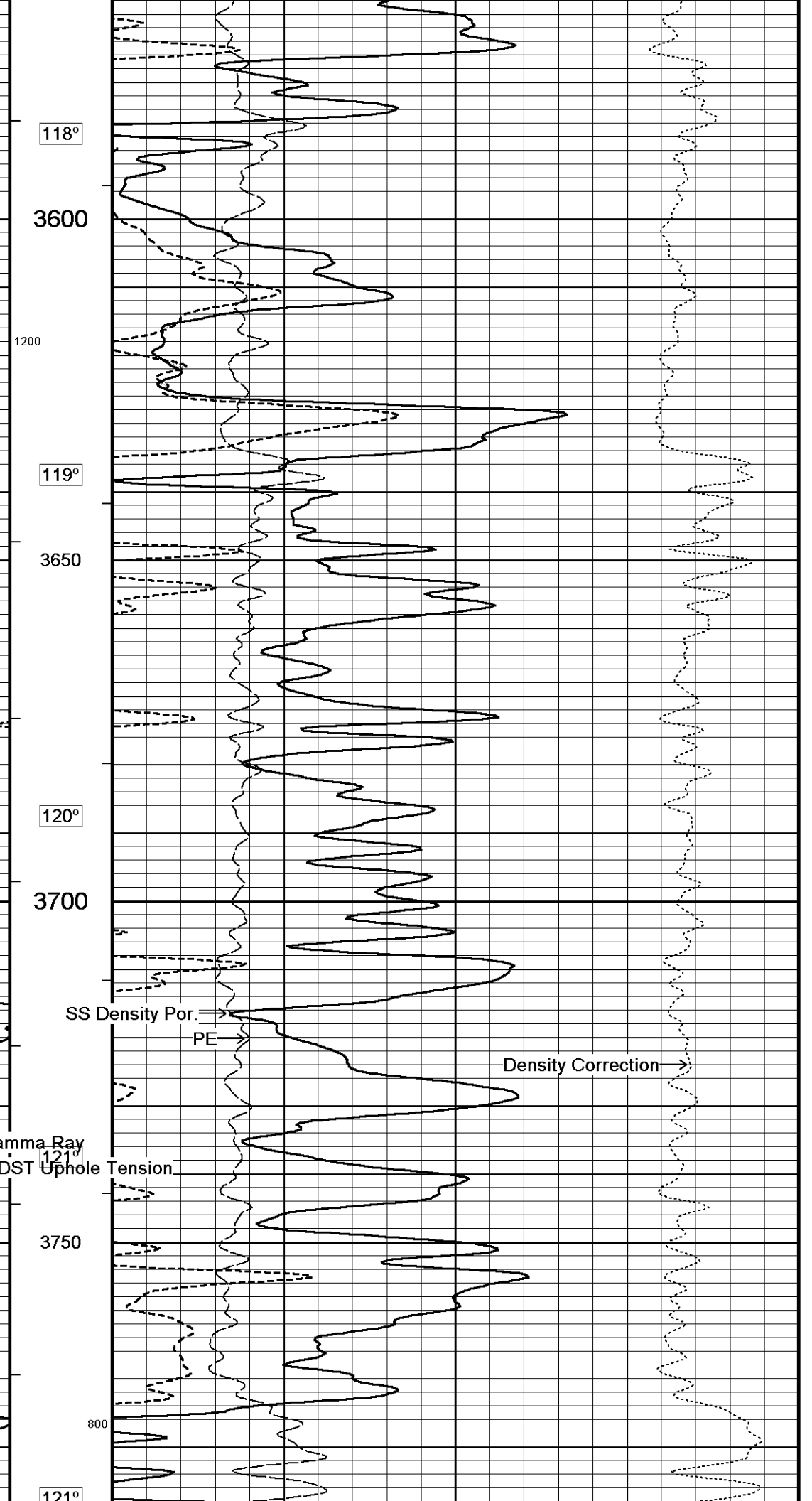
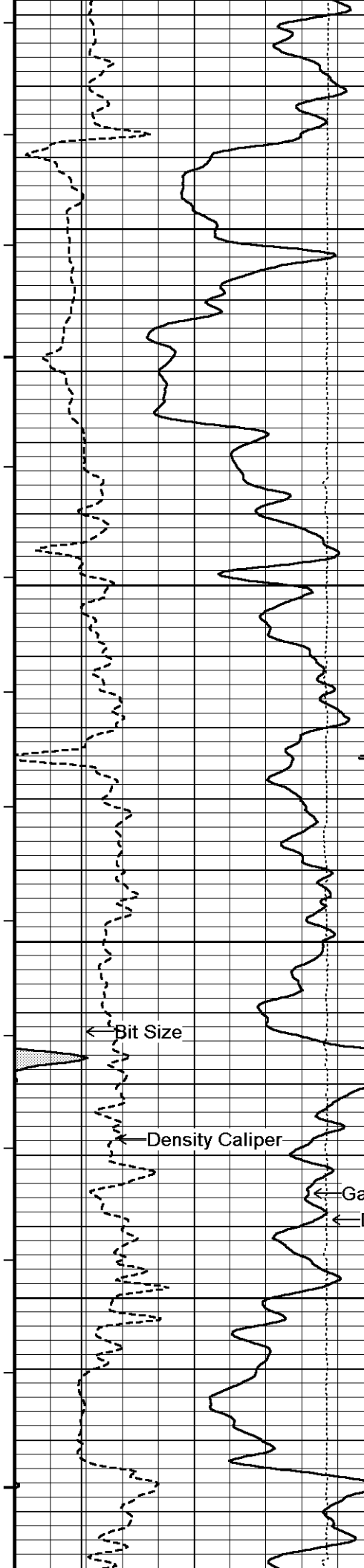






3350
1300
117°
3400
117° 900
3450
118°
3500
118°
3550





118°

3600

1200

119°

3650

120°

3700

121°

3750

800

121°

Bit Size

Density Caliper

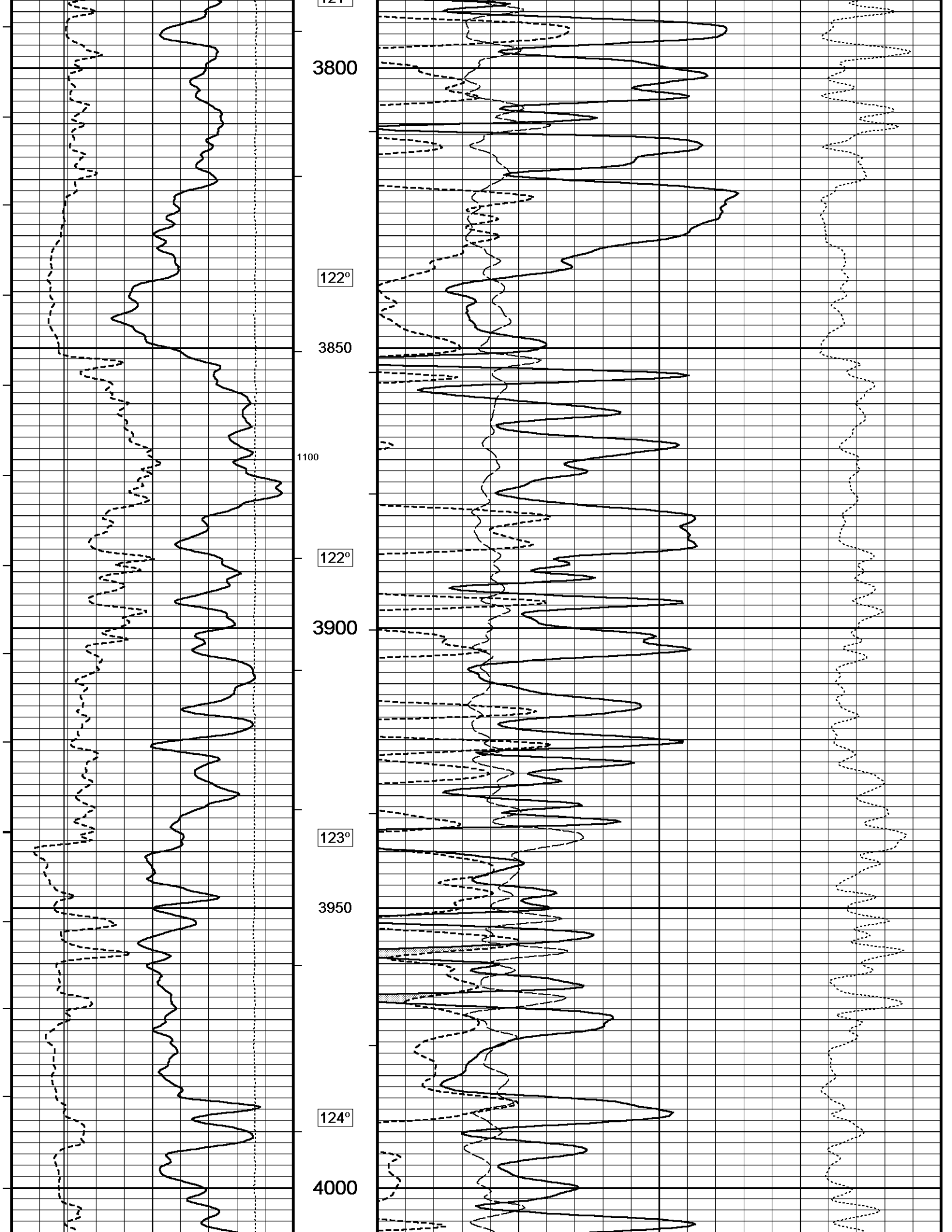
Gamma Ray

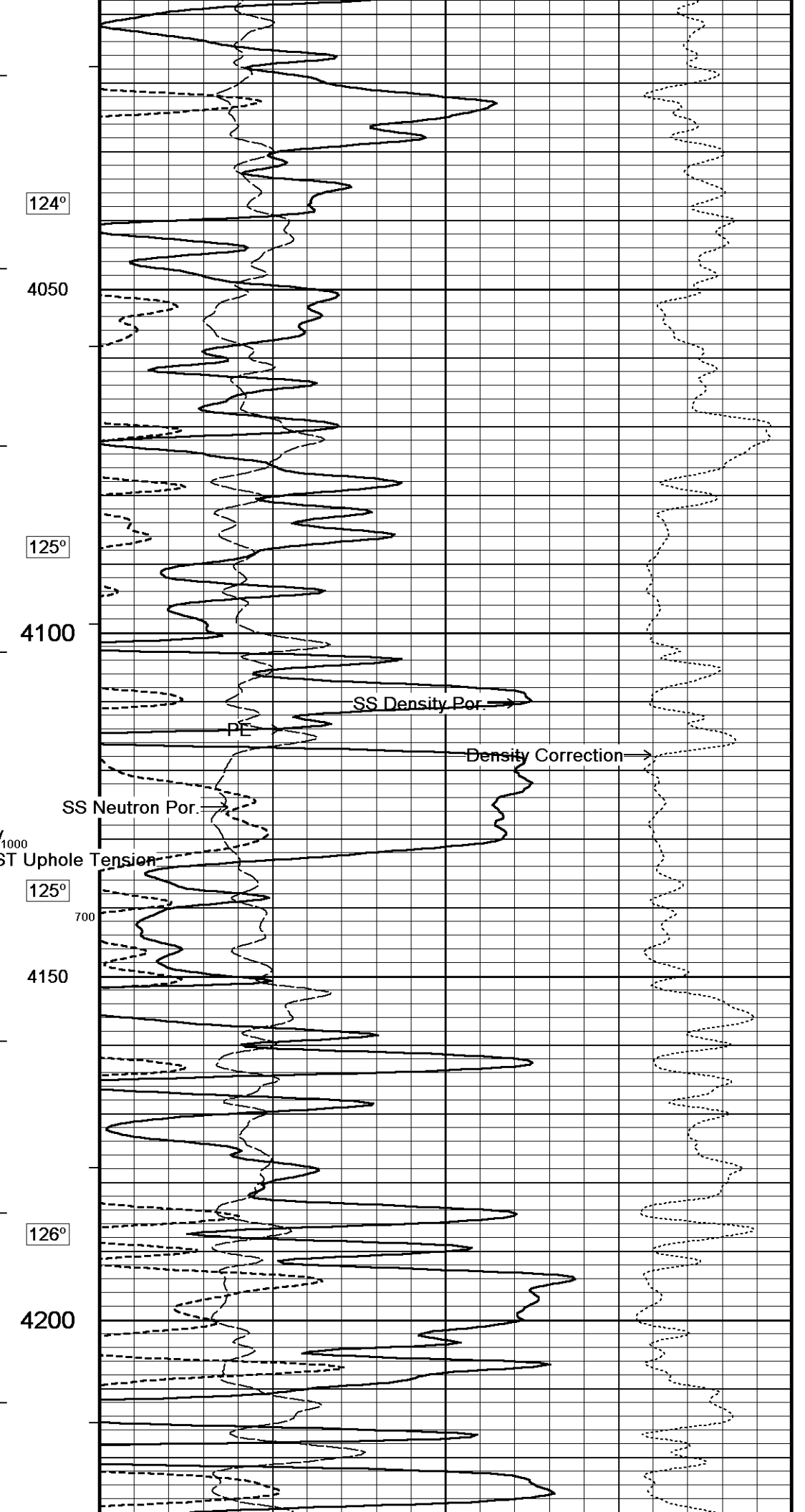
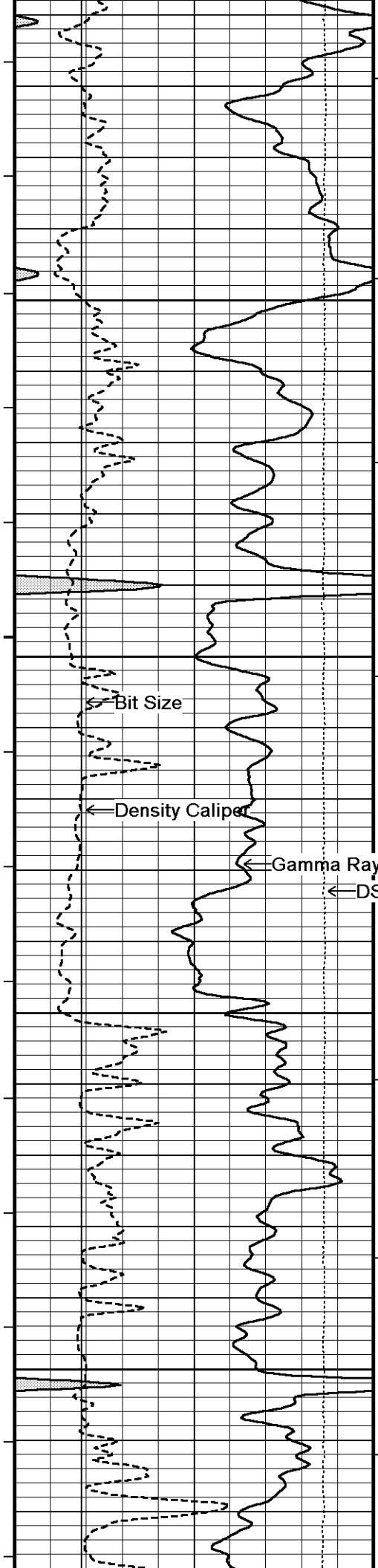
DST Uphole Tension

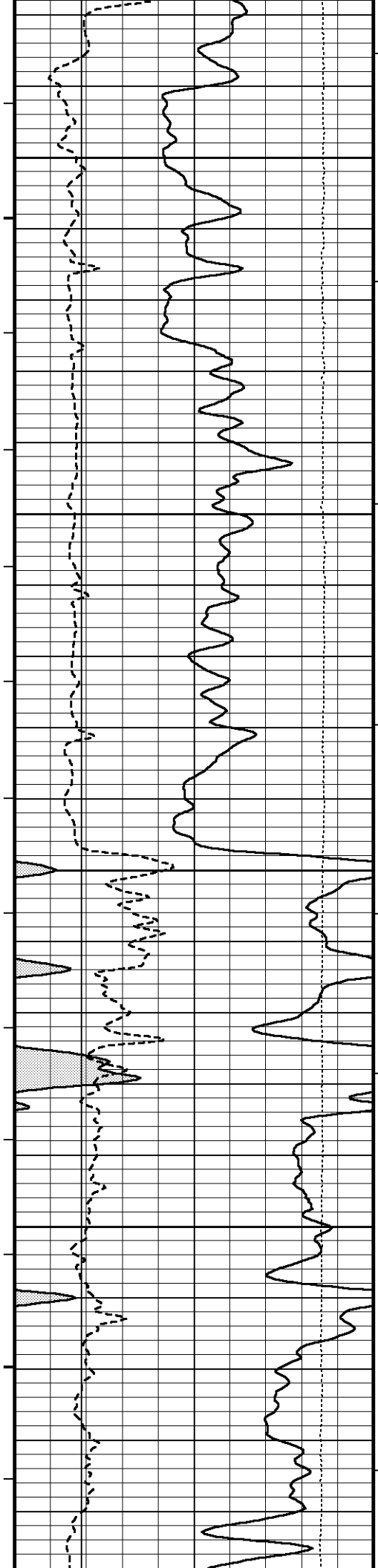
SS Density Por.

PE

Density Correction







126°

4250

127°

4300

128°

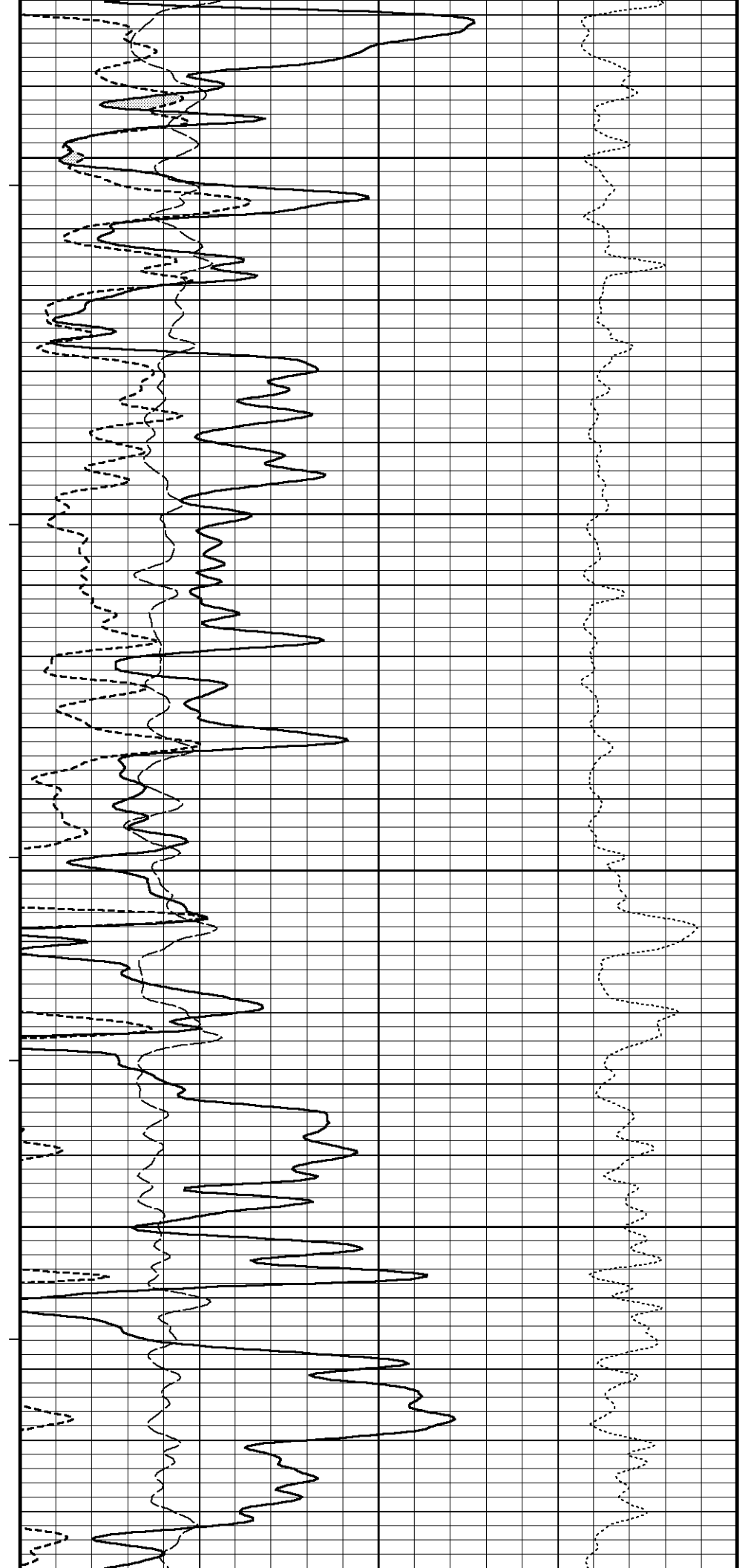
4350

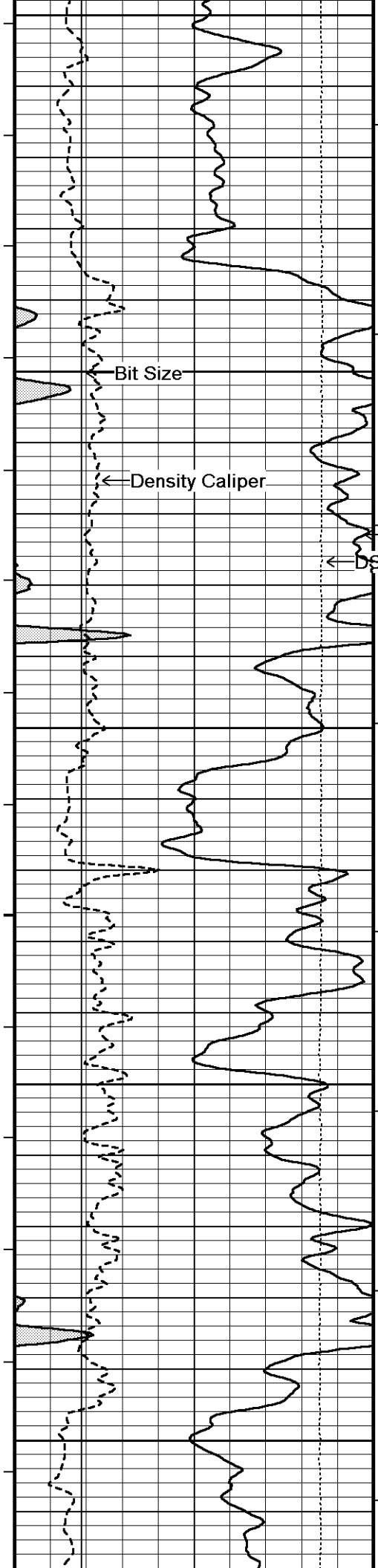
129°

4400

900

129°





4450

130°

4500

130°

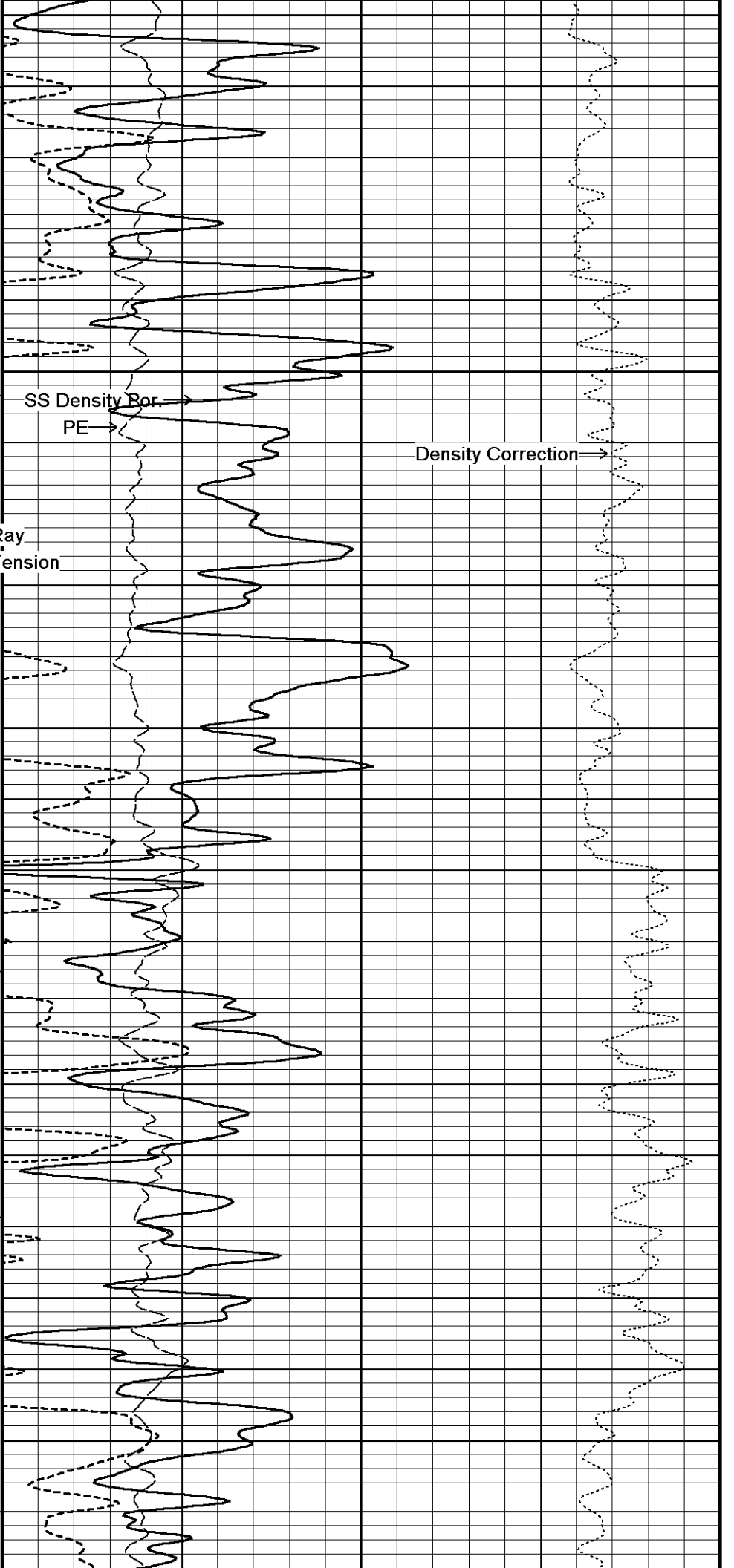
4550

131°

4600

132°

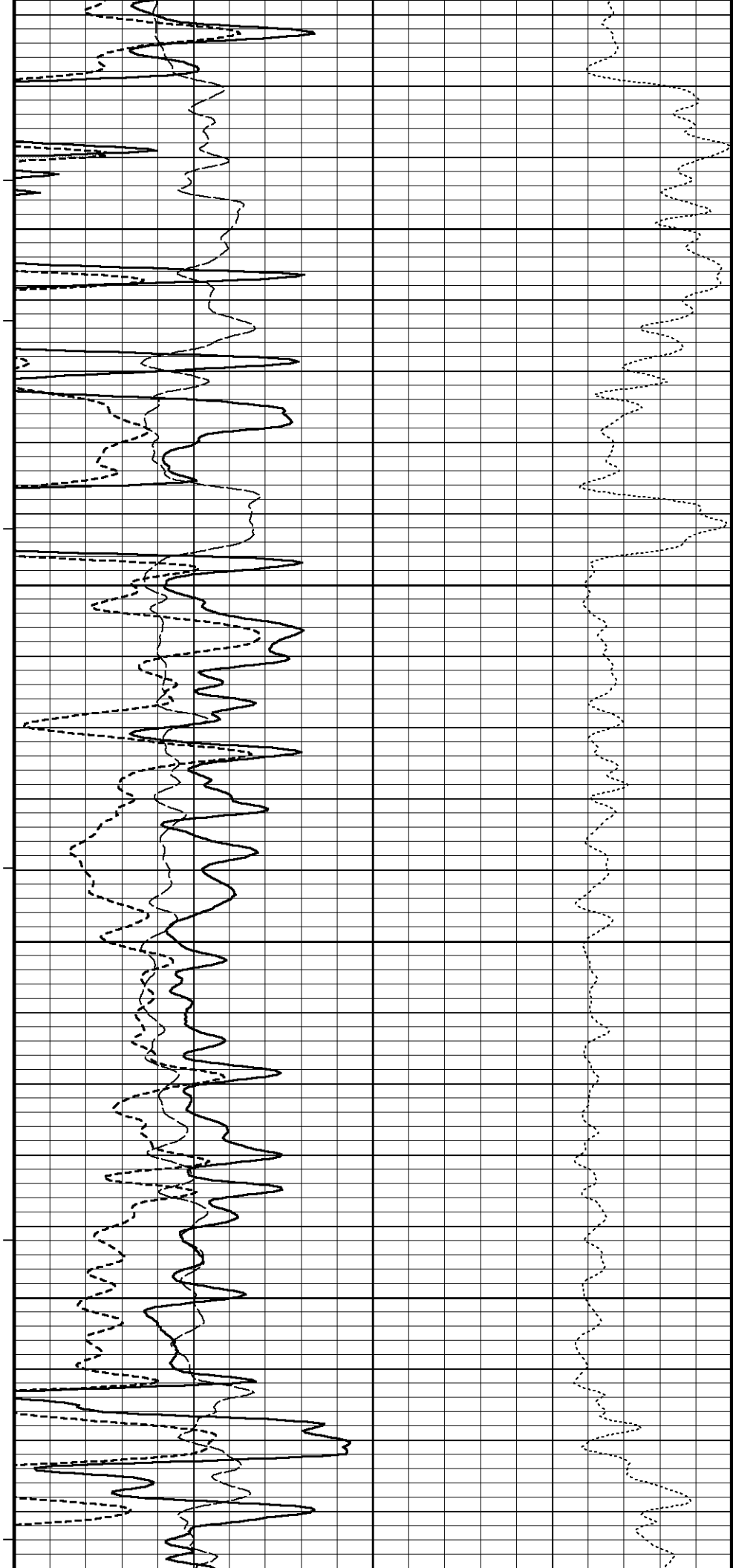
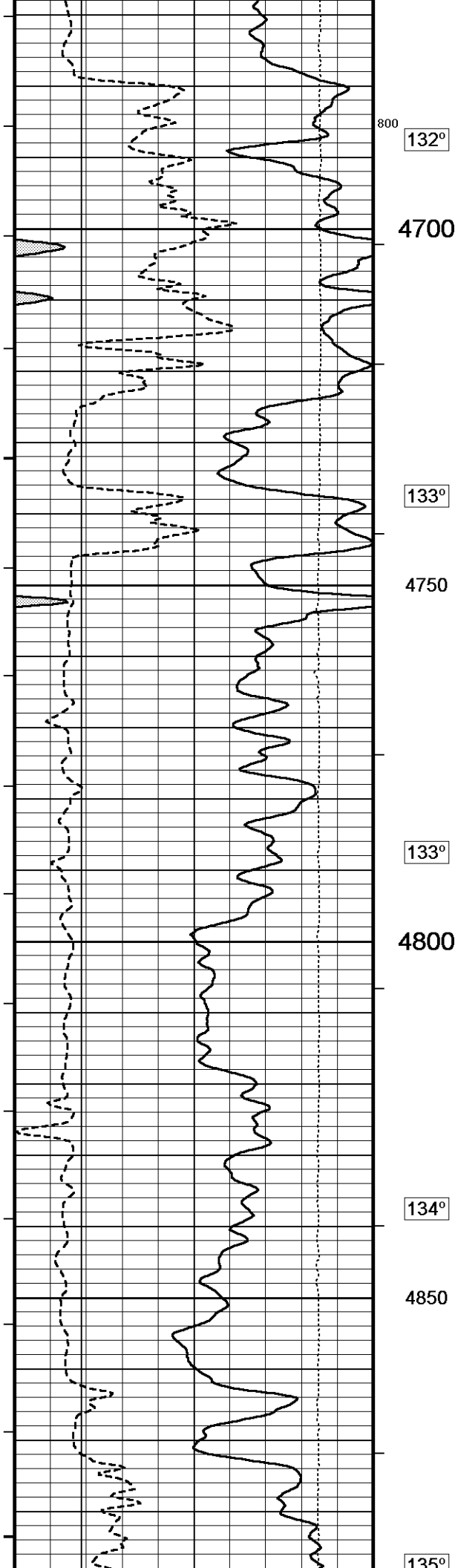
4650

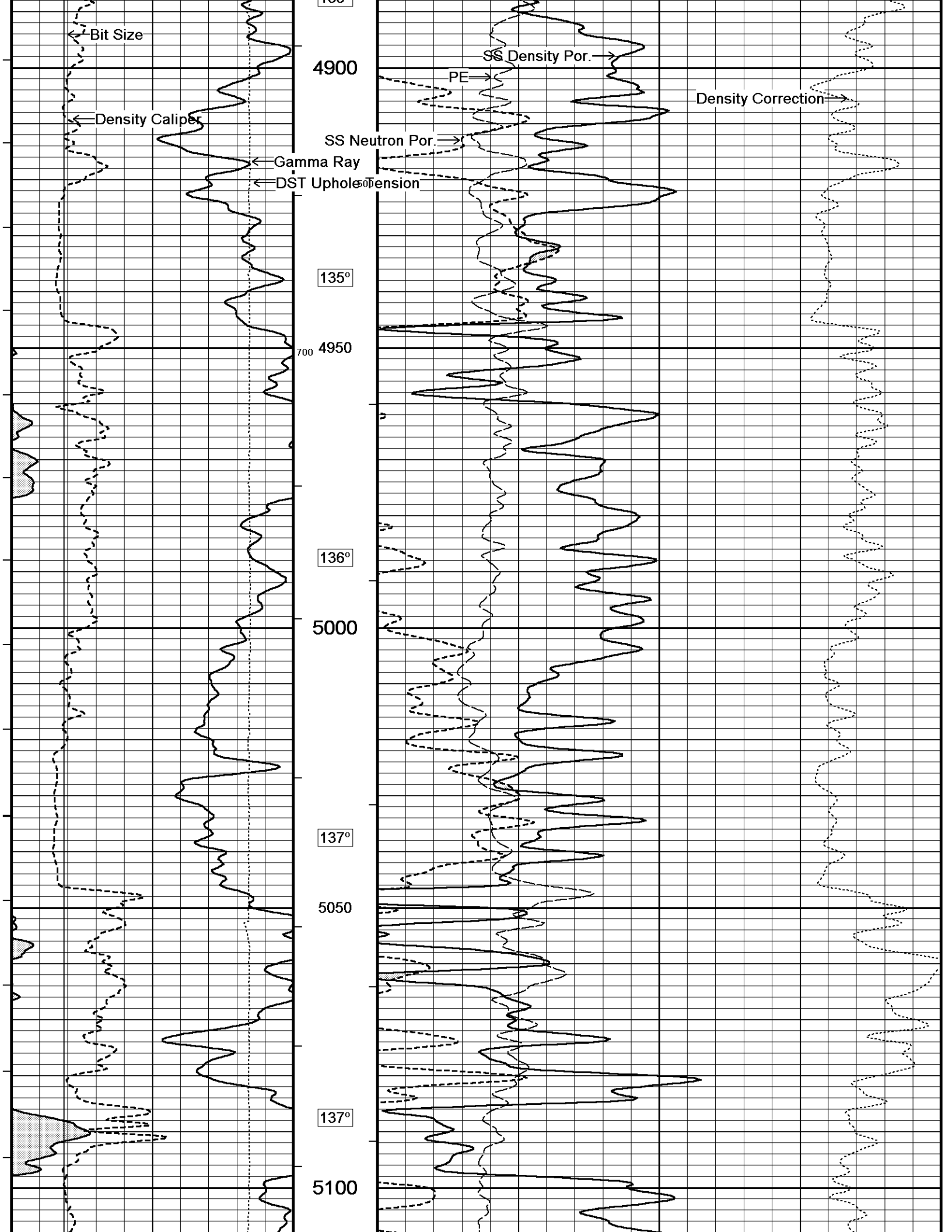


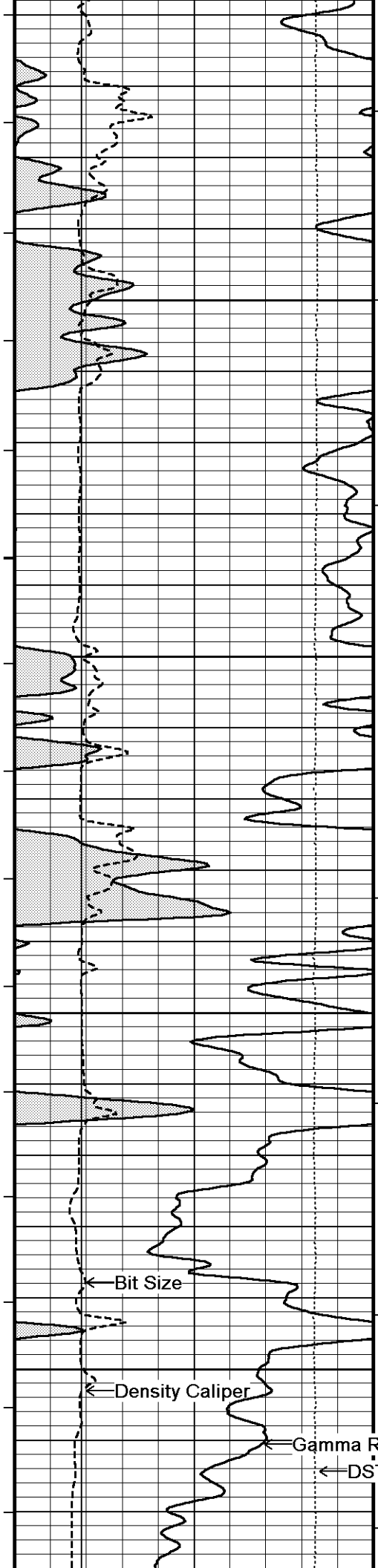
SS Density Por

PE

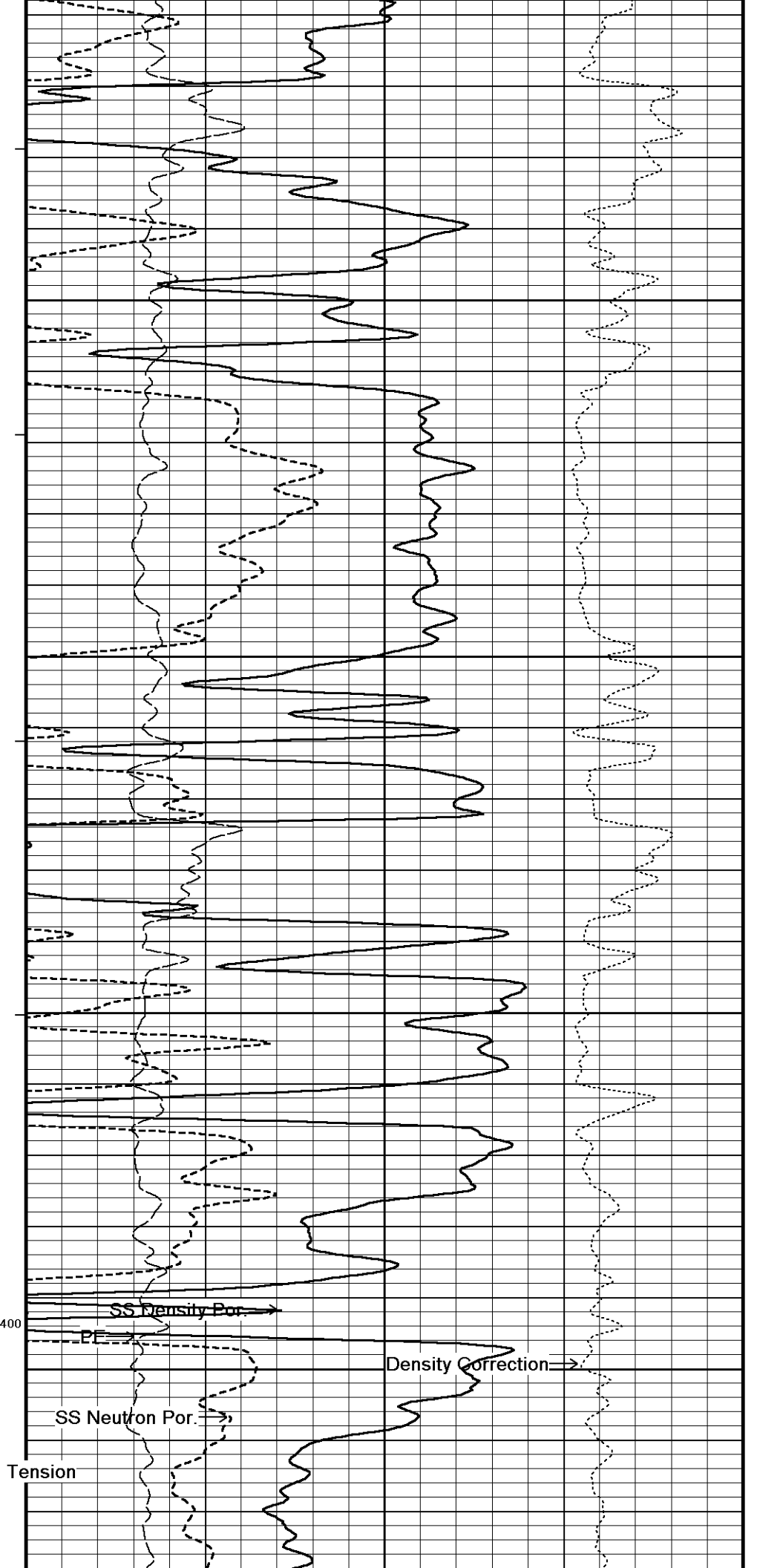
Density Correction



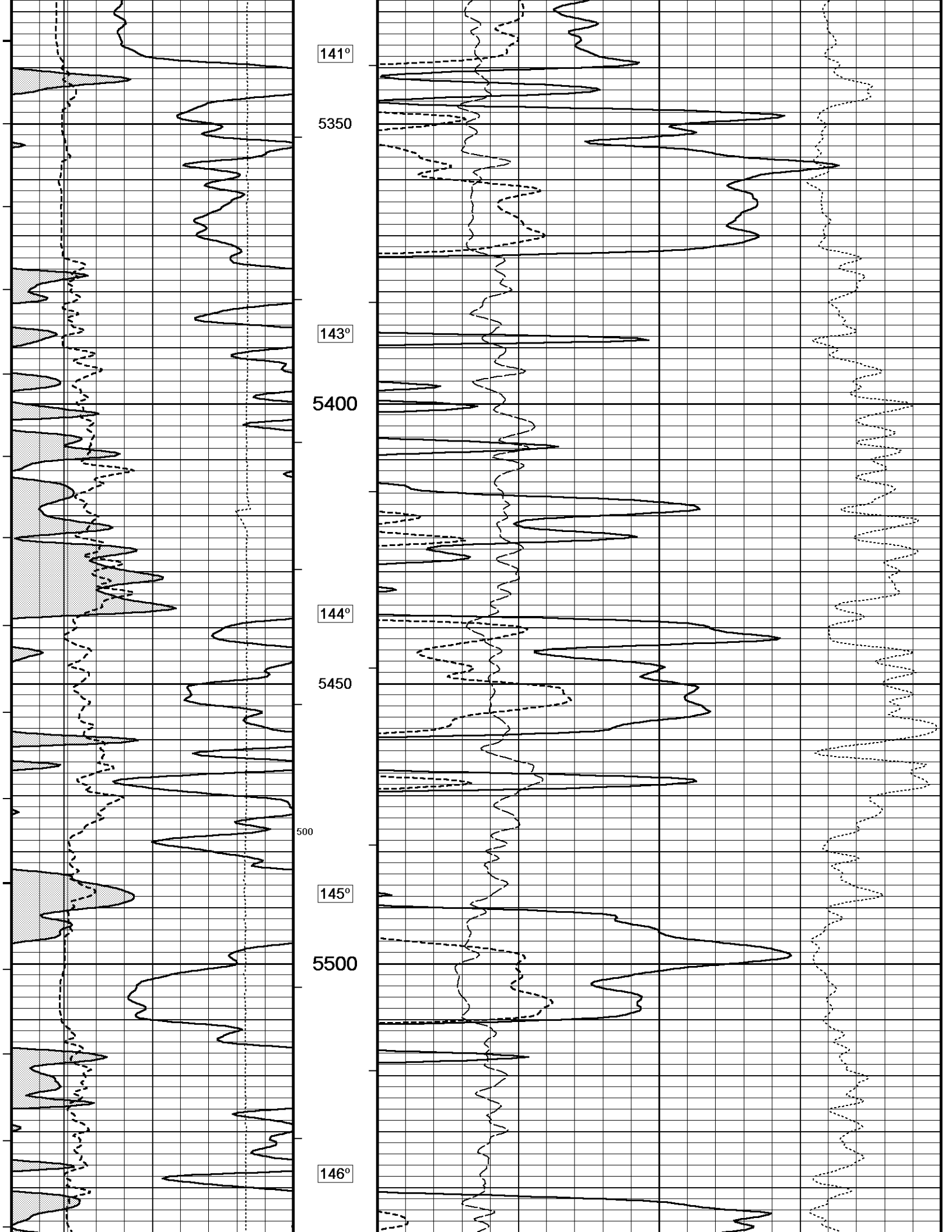


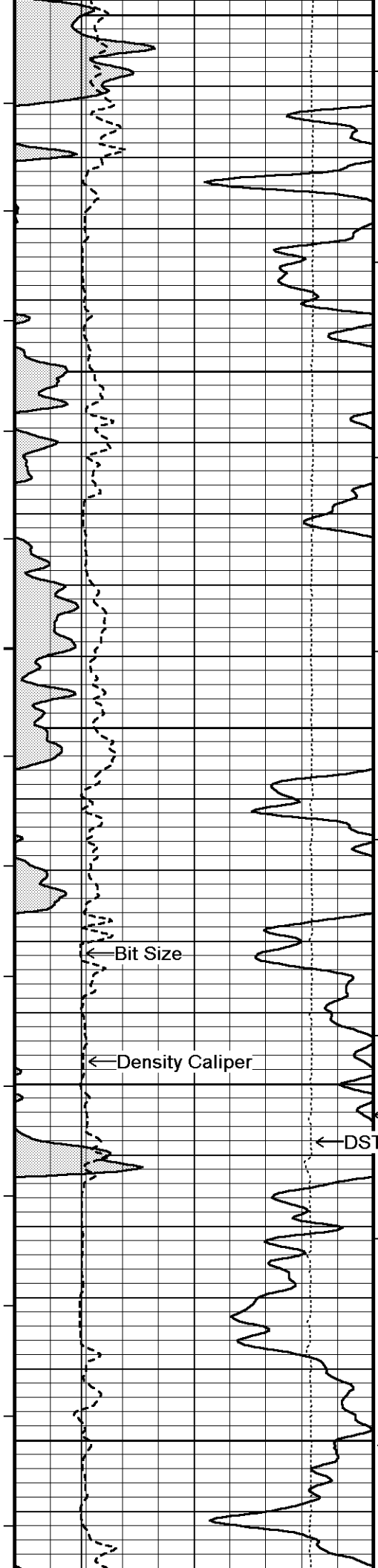


138°
5150
139°
5200
600
139°
5250
140°
5300

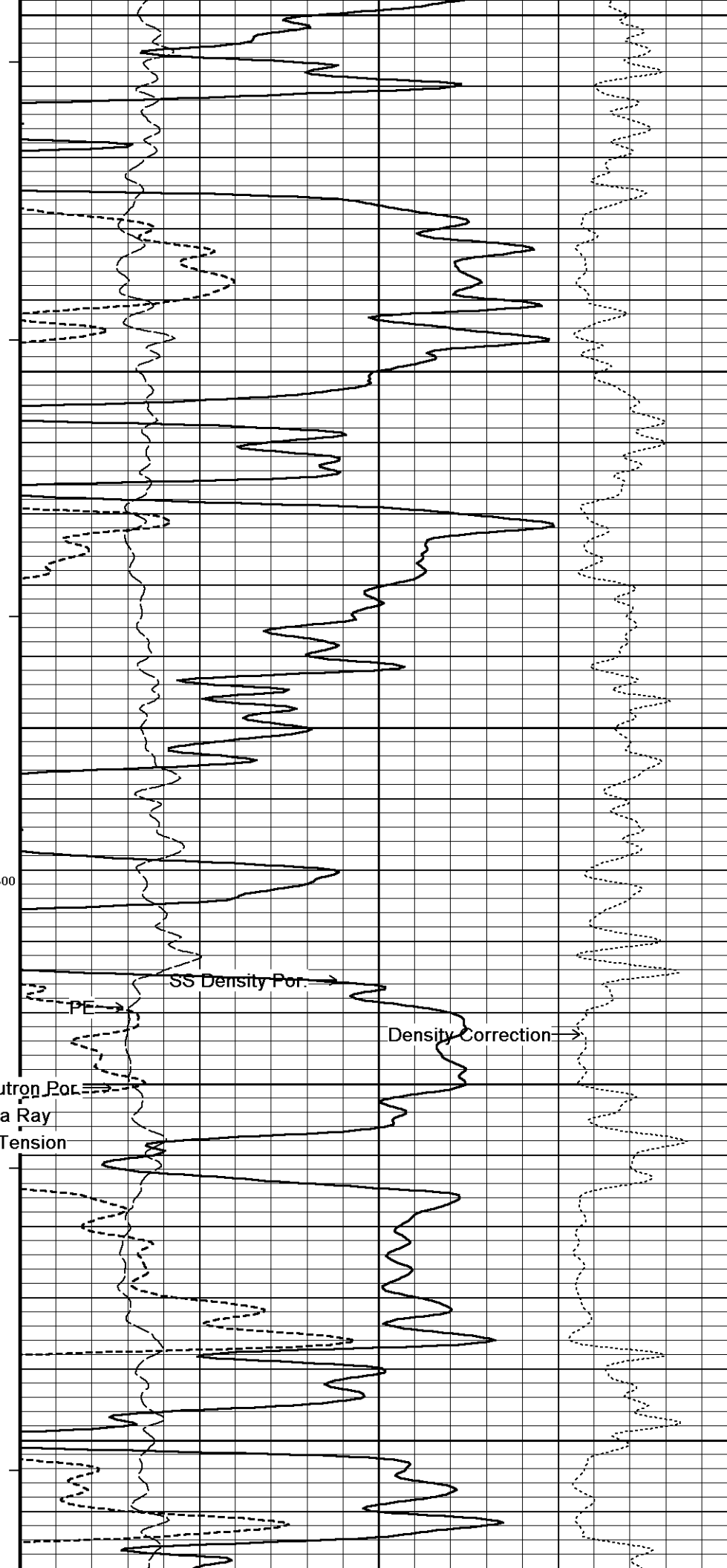


SS Density Por.
PF
SS Neutron Por.
Density Correction





5550
147°
5600
148°
5650
300
149°
5700
149°
5750



Bit Size

Density Caliper

SS Density Por.

Gamma Ray

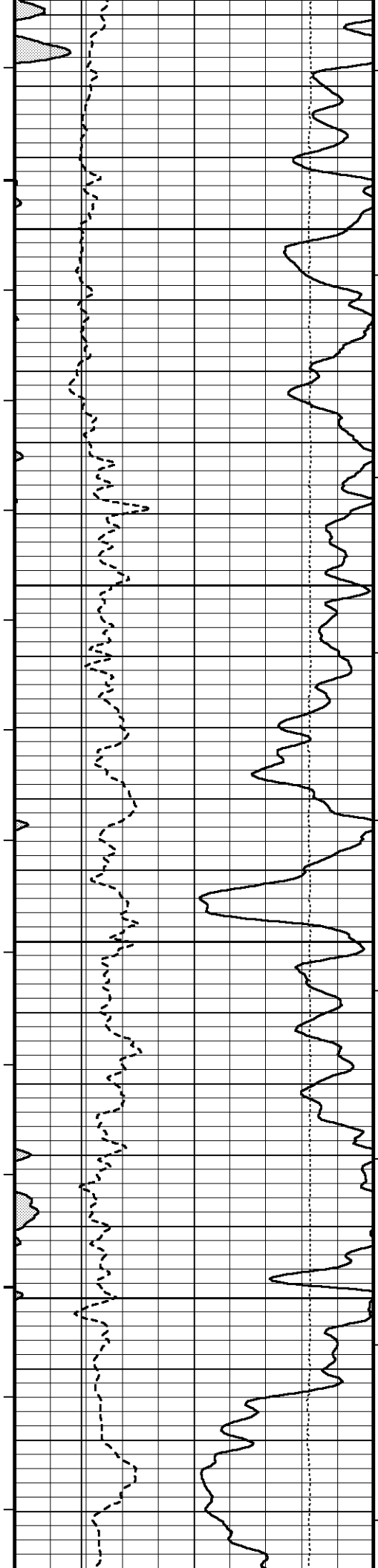
DST Uphole Tension

SS Density Por.

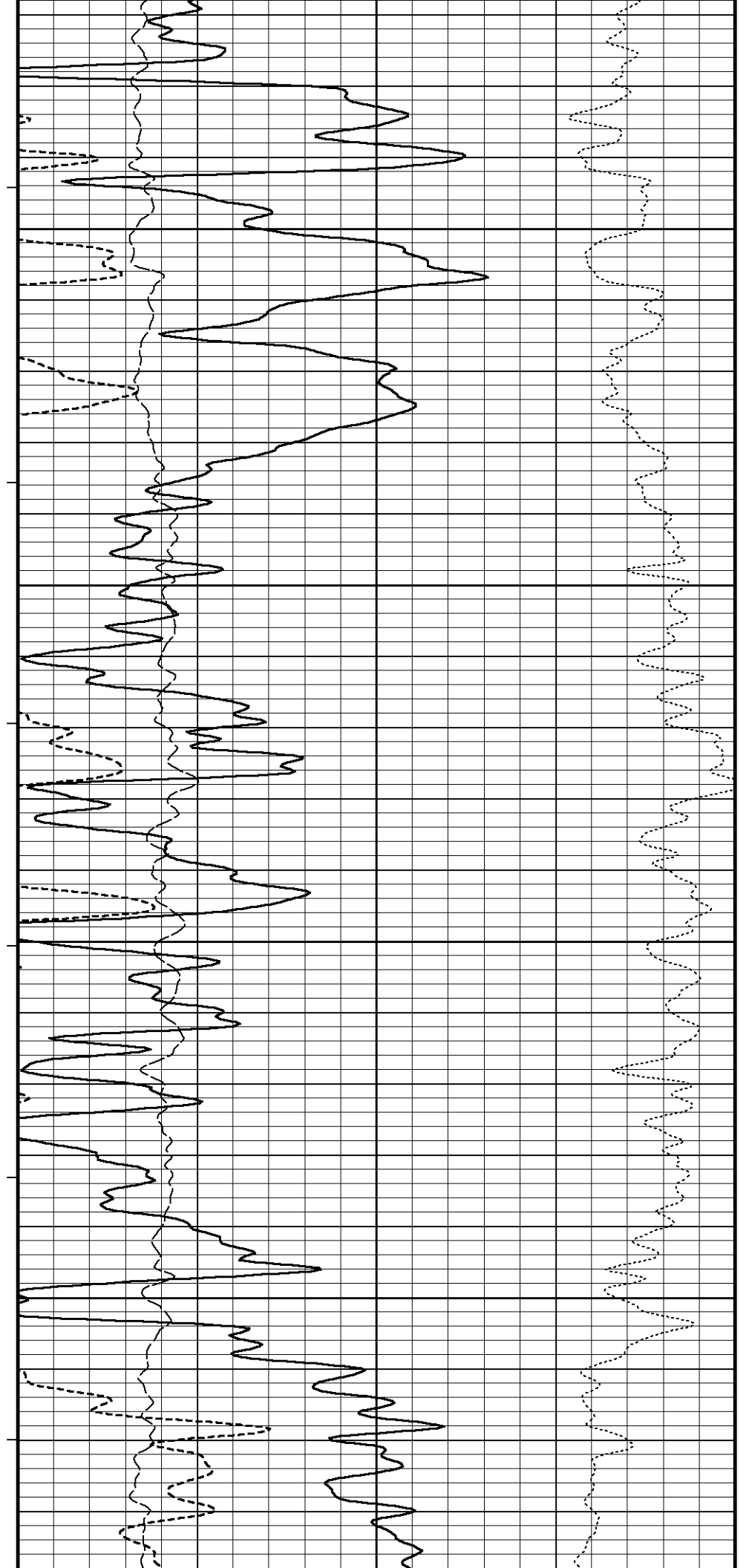
Density Correction

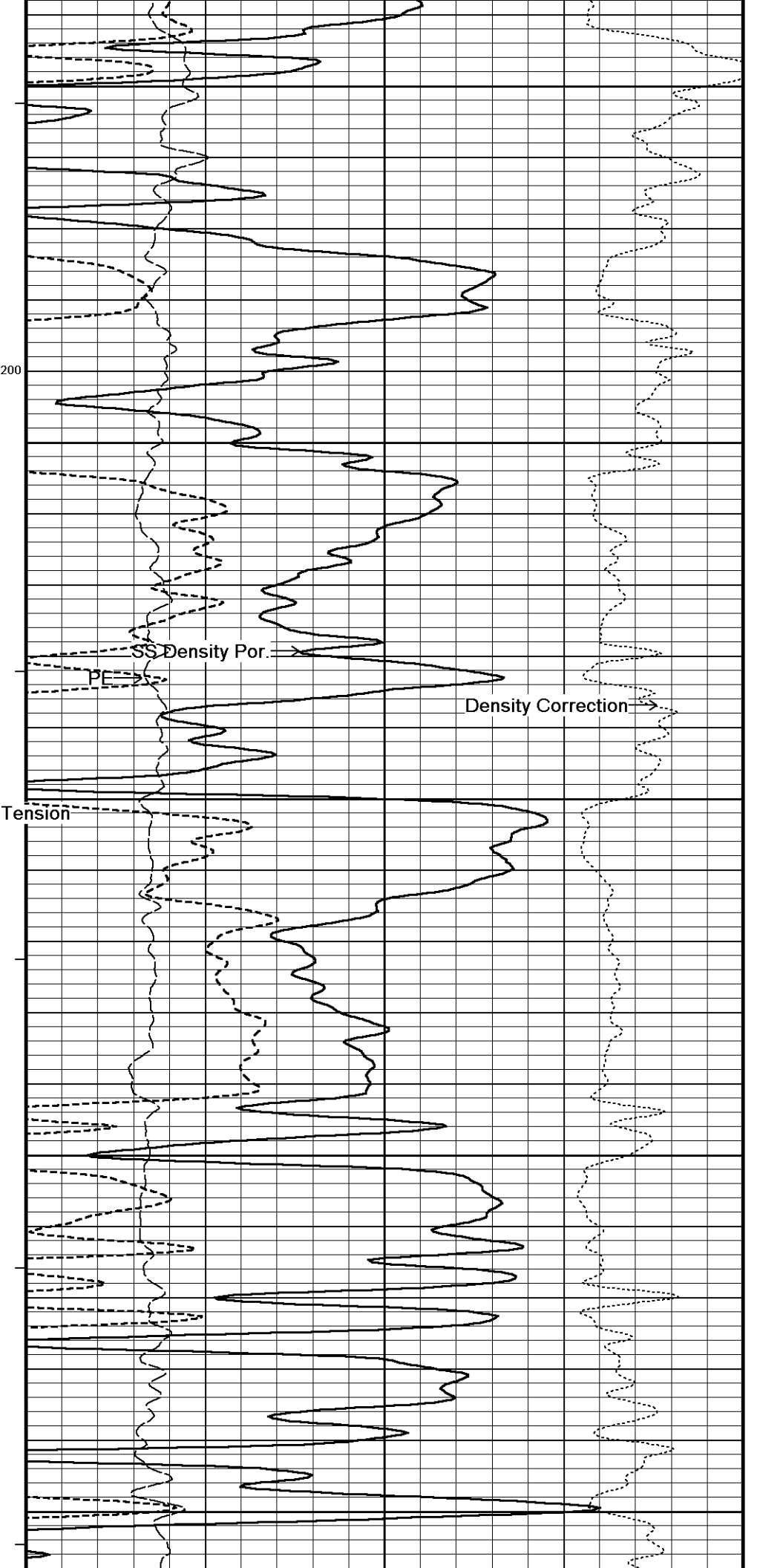
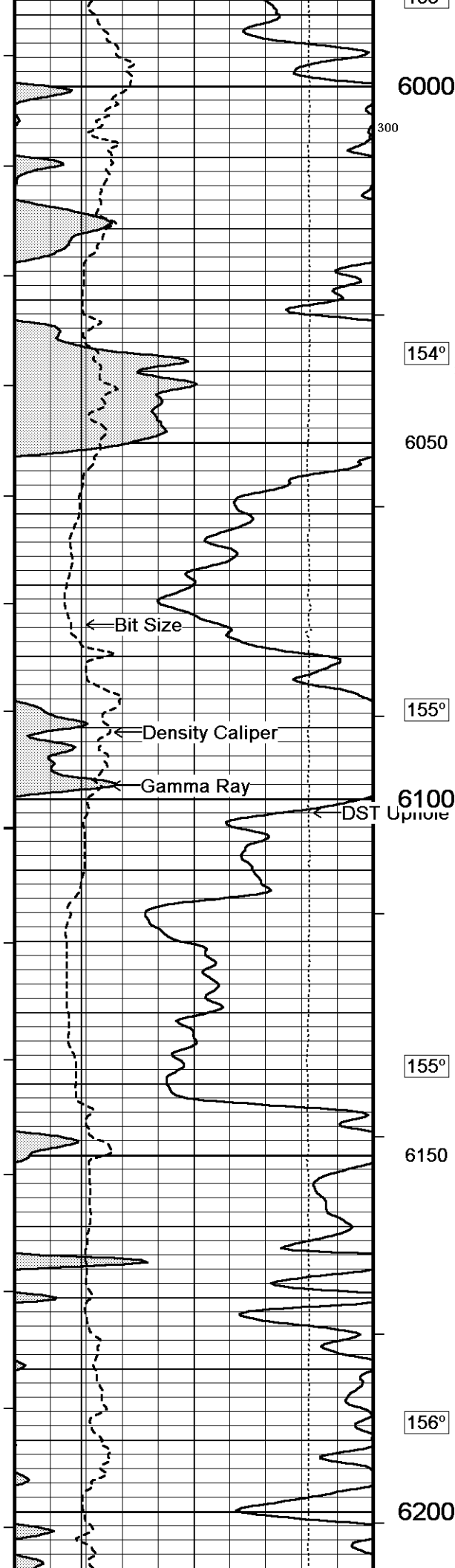
300

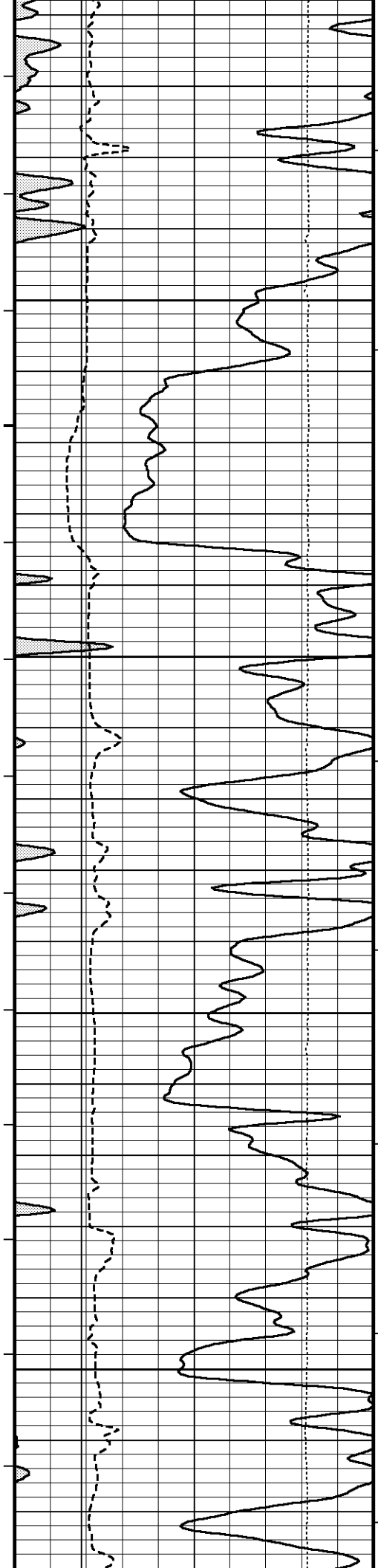
400



150°
5800
151°
5850
152°
5900
152°
5950
153°







157°

6250

200 158°

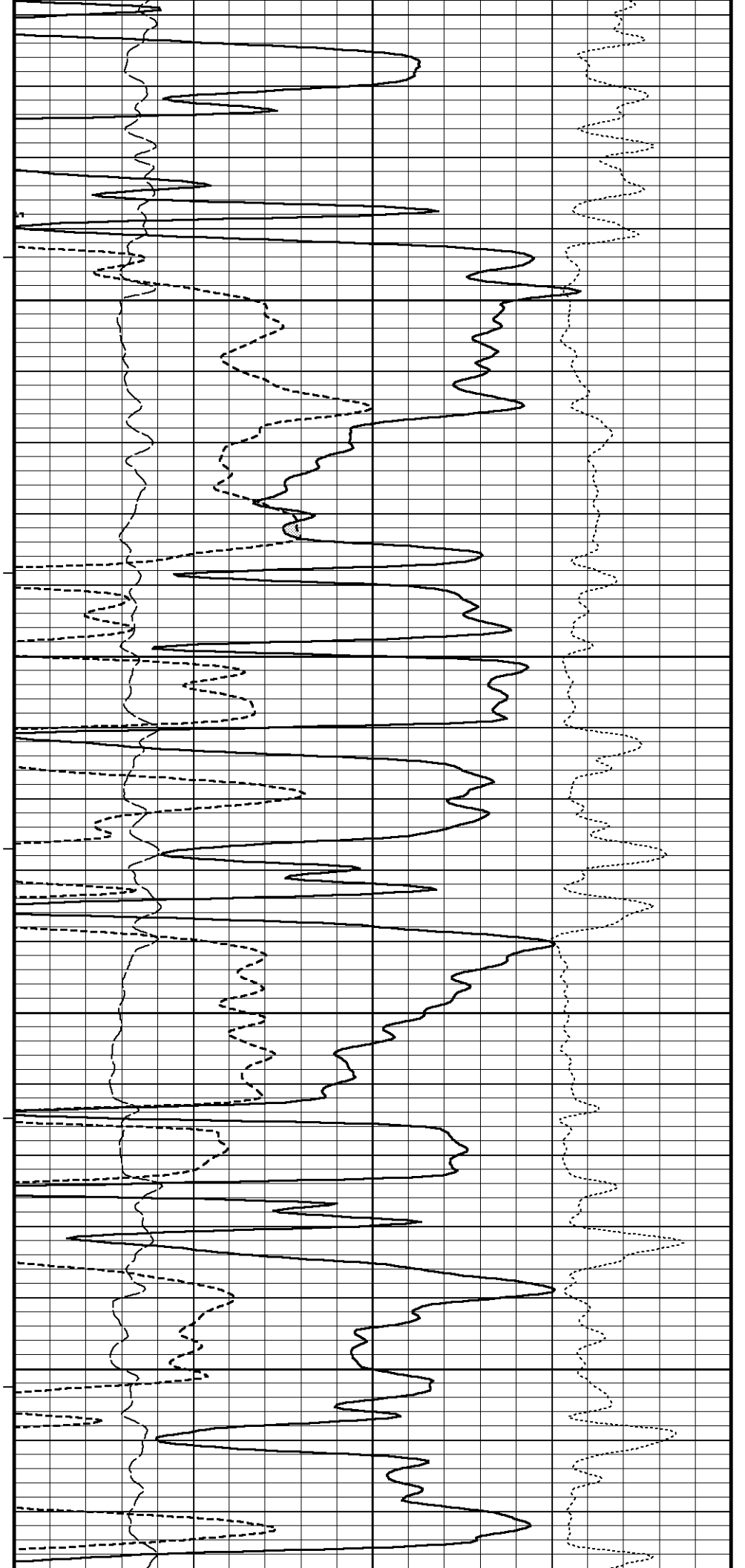
6300

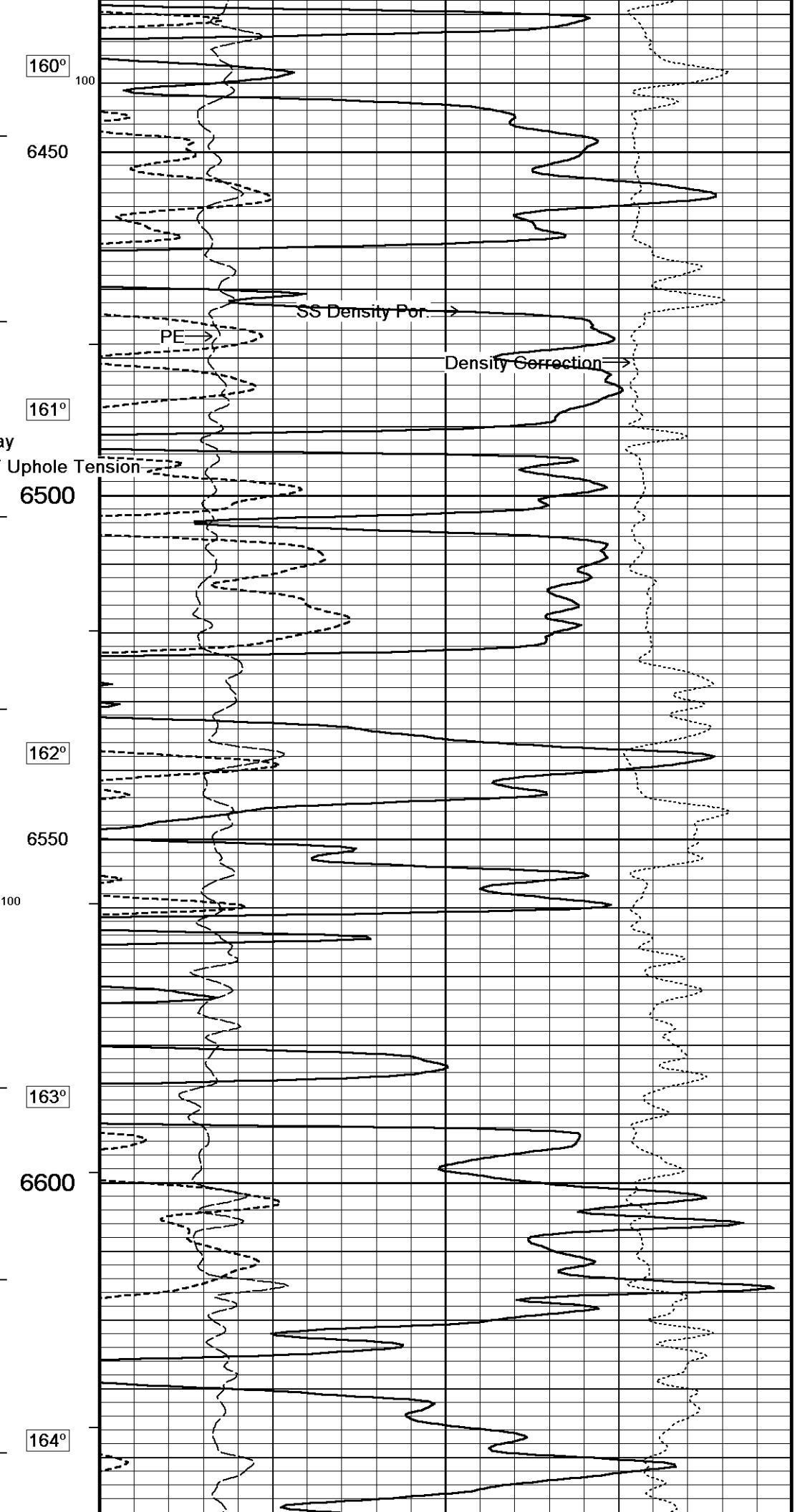
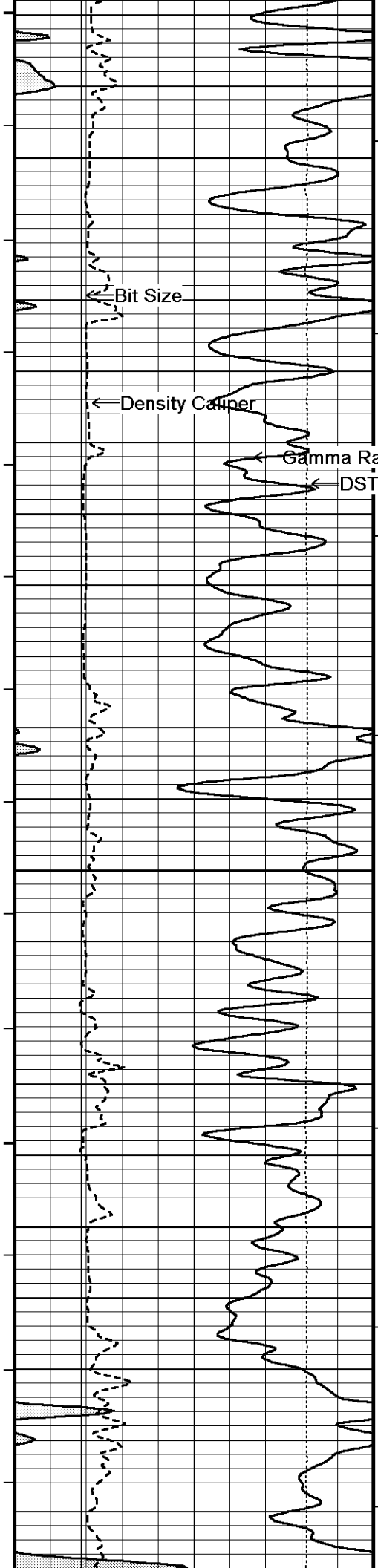
158°

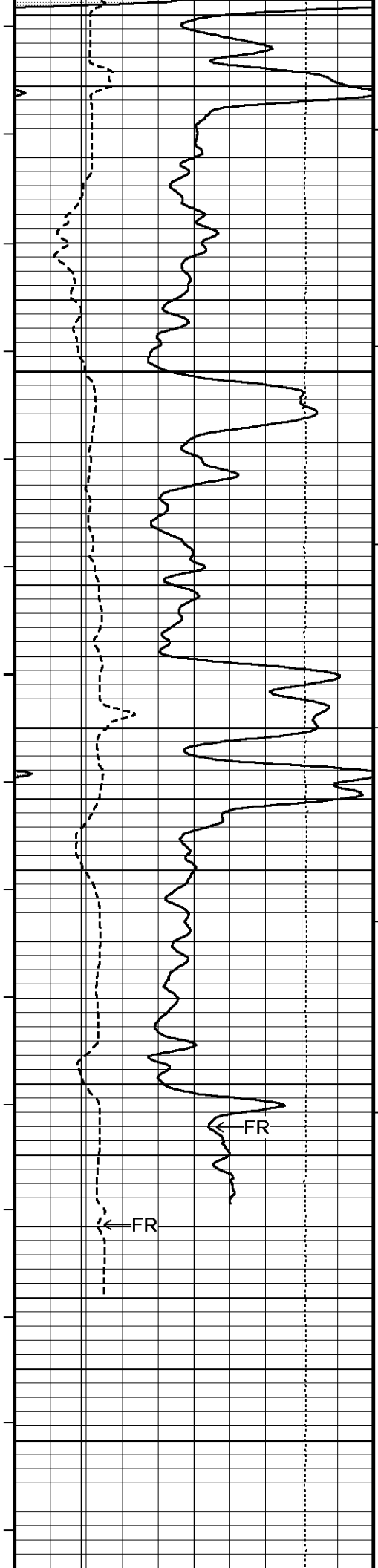
6350

159°

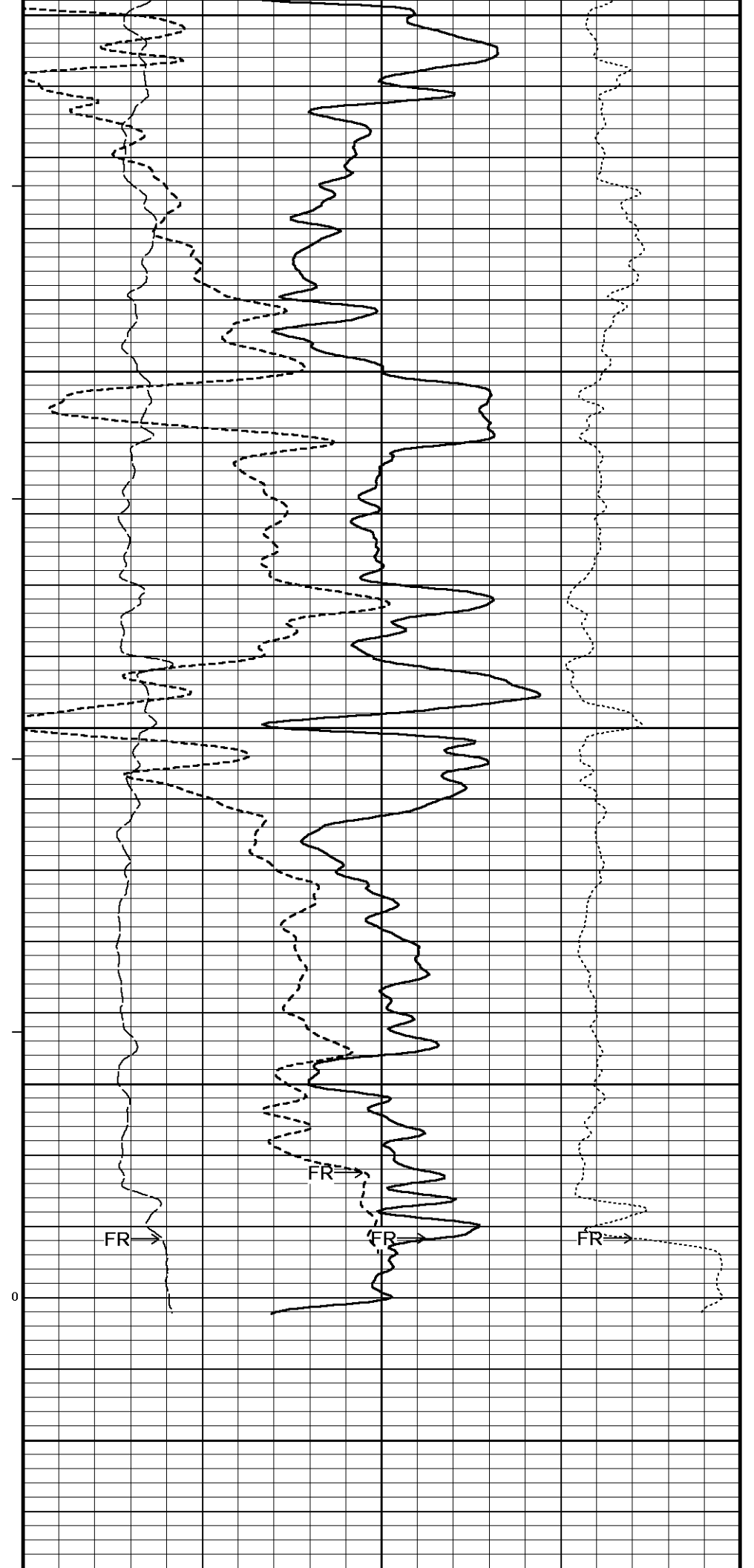
6400

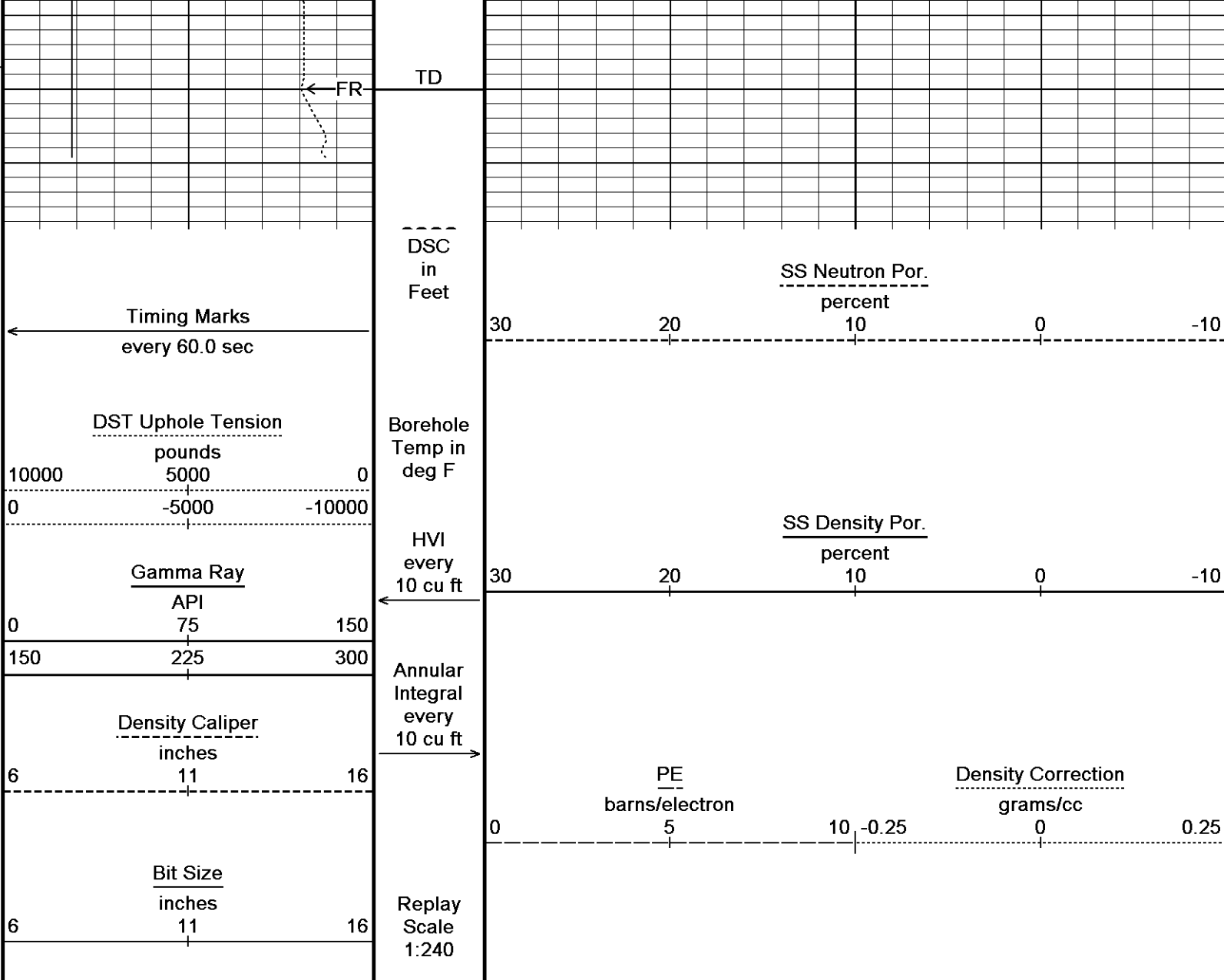






6650
165°
6700
165°
6750
165°
6800
0
6850



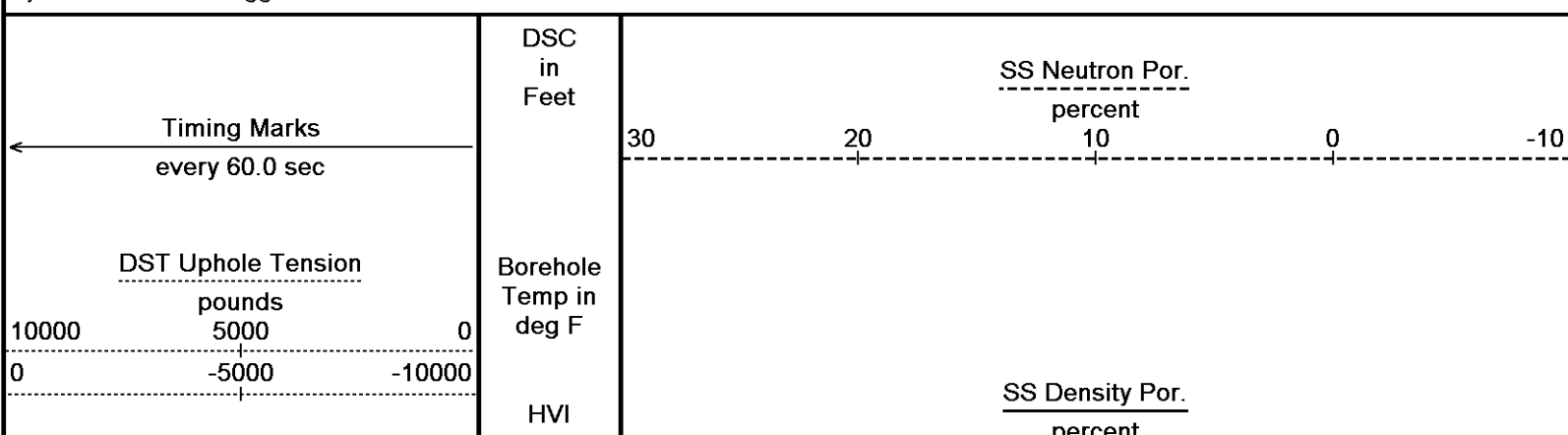


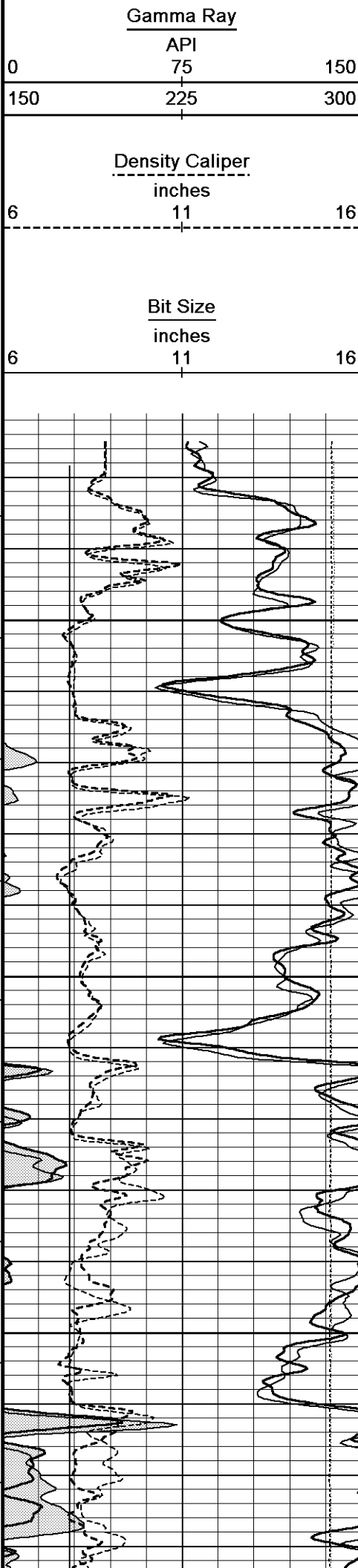
Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 24-JAN-2012 15:40
 Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...\Wexpro Carl Allen 41_4.dta Recorded on 24-JAN-2012 07:46
 System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

↑ 5 INCH MAIN LOG ↑

↓ UPPER REPEAT SECTION OVERLAY ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 24-JAN-2012 15:40
 Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...Wexpro Carl Allen 41_4.dta
 Recorded on 24-JAN-2012 07:46
 Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...Wexpro Carl Allen 41_1.dta
 Recorded on 24-JAN-2012 05:39
 System Versions: Logged with 12.02.4401 Plotted with 12.02.4401





every
10 cu ft

←

Annular
Integral
every
10 cu ft

→

Replay
Scale
1:240

1524
Casing
Shoe

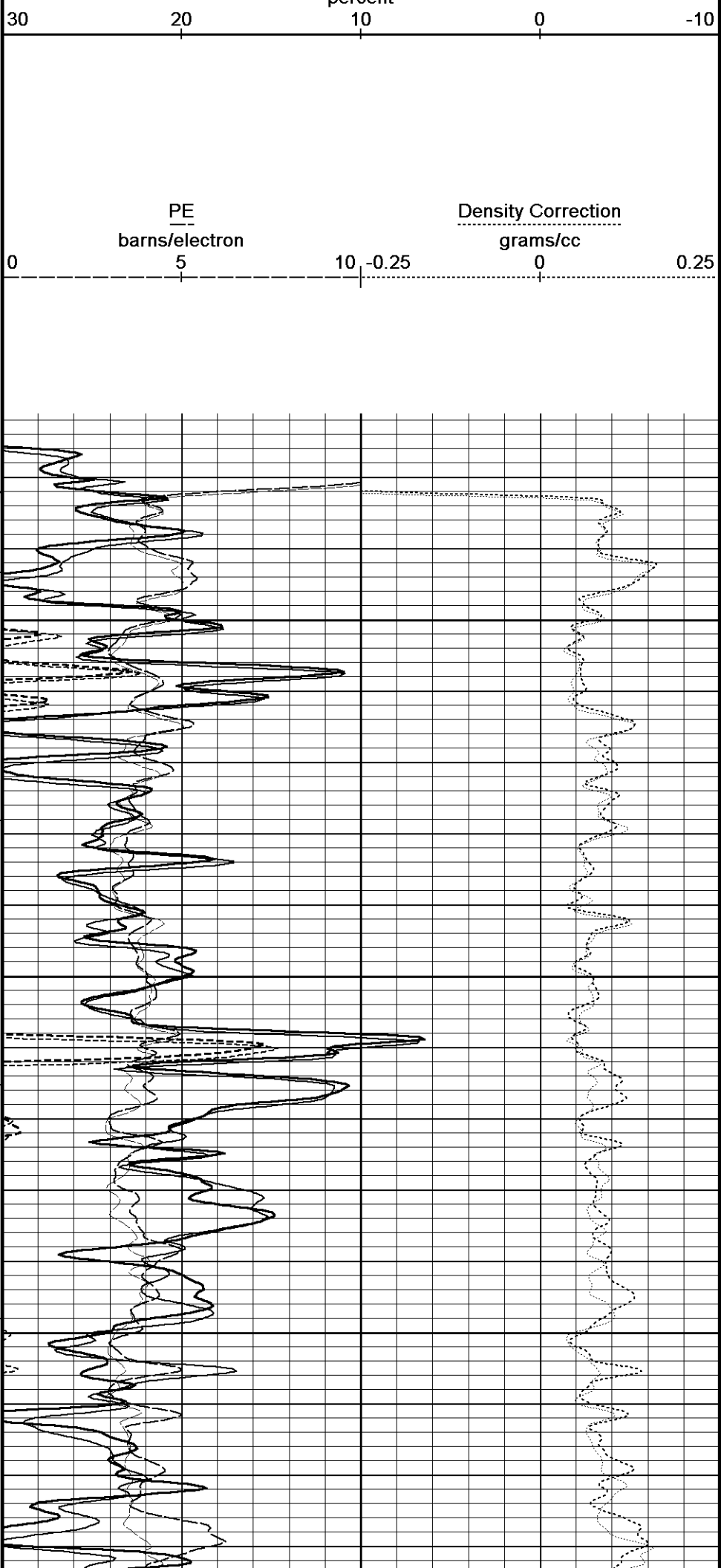
1550

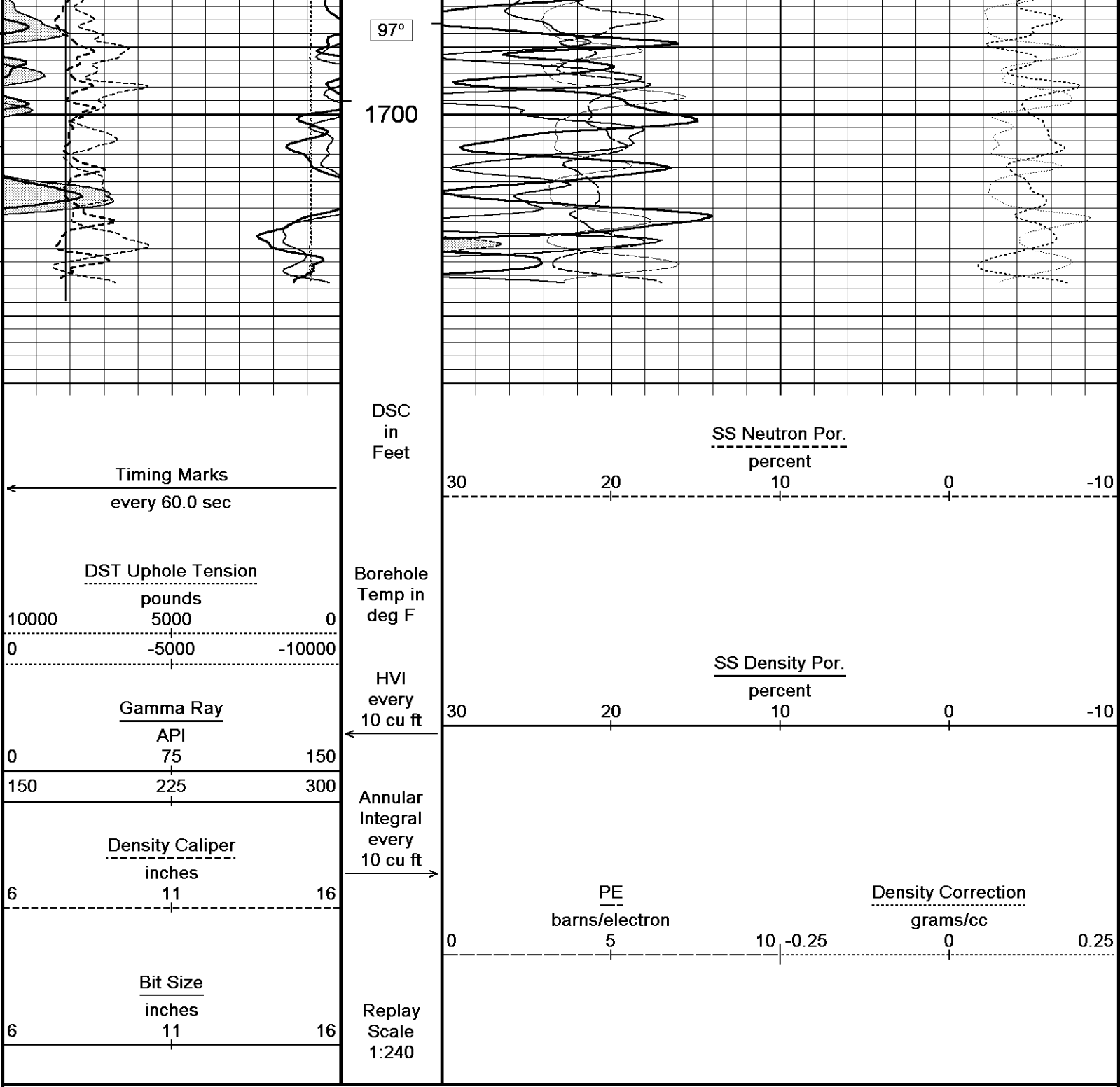
96°

1600

96°

1650





Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...\Wexpro Carl Allen 41_4.dta

Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...\Wexpro Carl Allen 41_1.dta

System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

Plotted on 24-JAN-2012 15:40

Recorded on 24-JAN-2012 07:46

Recorded on 24-JAN-2012 05:39

UPPER REPEAT SECTION OVERLAY

Depth Based Data - Maximum Sampling Increment 10.0cm

Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...\Wexpro Carl Allen 41_4.dta

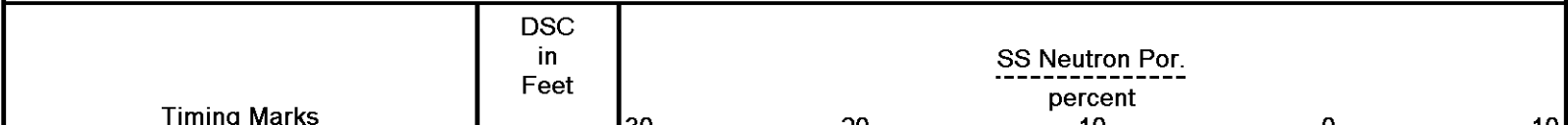
Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...\Wexpro Carl Allen 41_3.dta

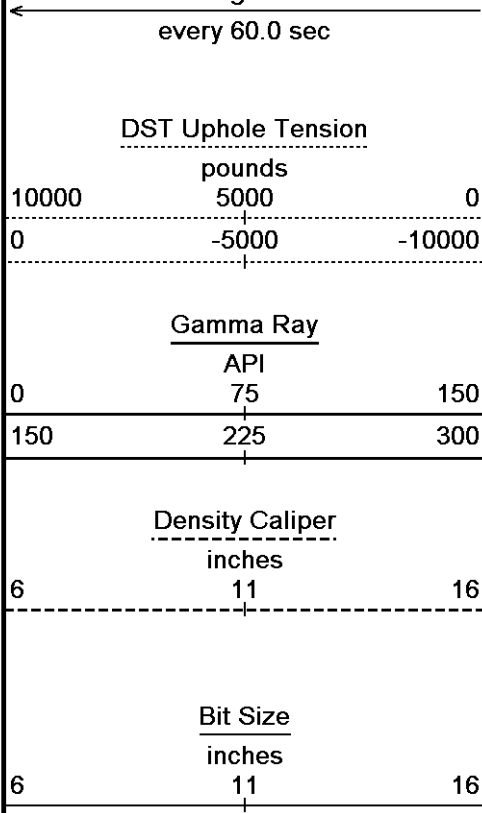
System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

Plotted on 24-JAN-2012 15:40

Recorded on 24-JAN-2012 07:46

Recorded on 24-JAN-2012 07:13





Borehole
Temp in
deg F

HVI
every
10 cu ft

Annular
Integral
every
10 cu ft

Replay
Scale
1:240

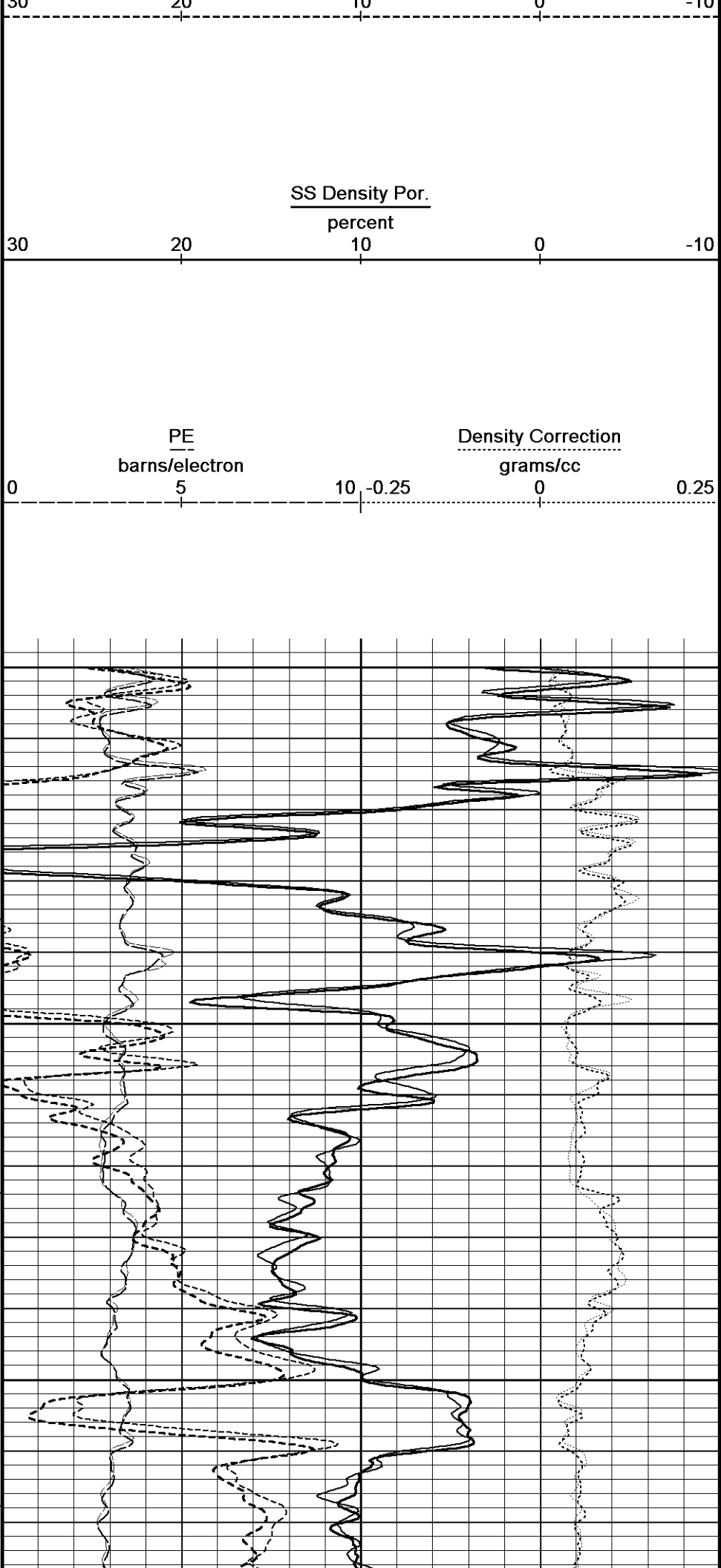
6600

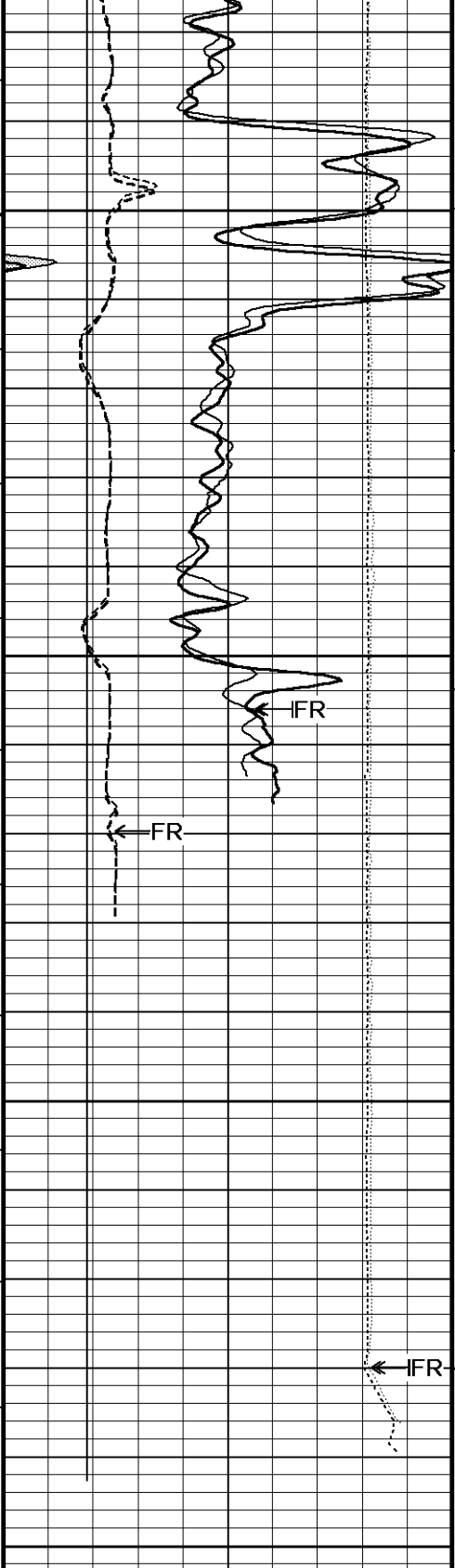
164°

6650

165°

6700





165°

6750

165°

6800

IFR

FR

0

6850

TD

IFR

6900

DSC
in
Feet

Timing Marks
every 60.0 sec

DST Uphole Tension

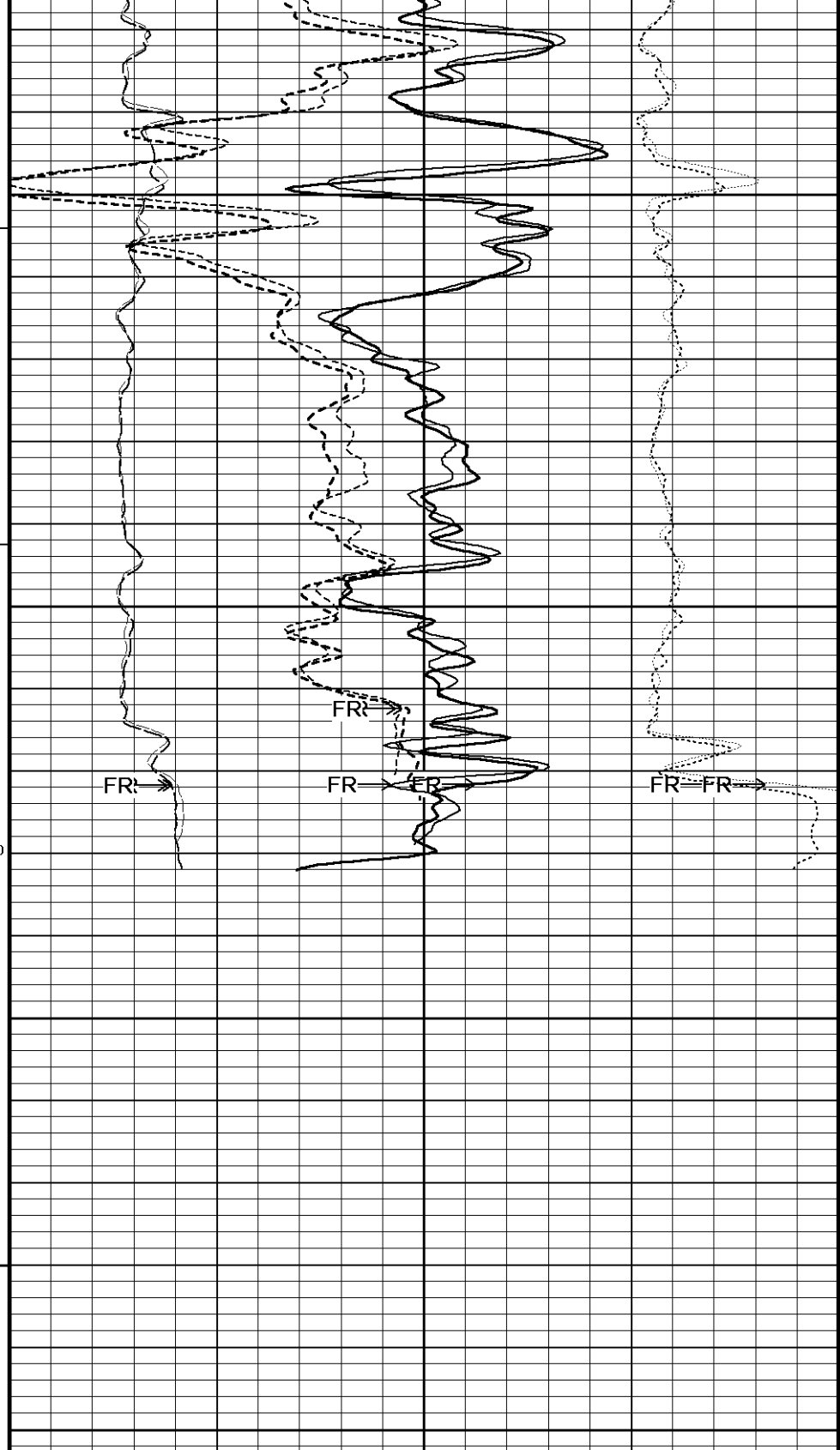
pounds

10000 5000 0

0 -5000 -10000

Borehole
Temp in
deg F

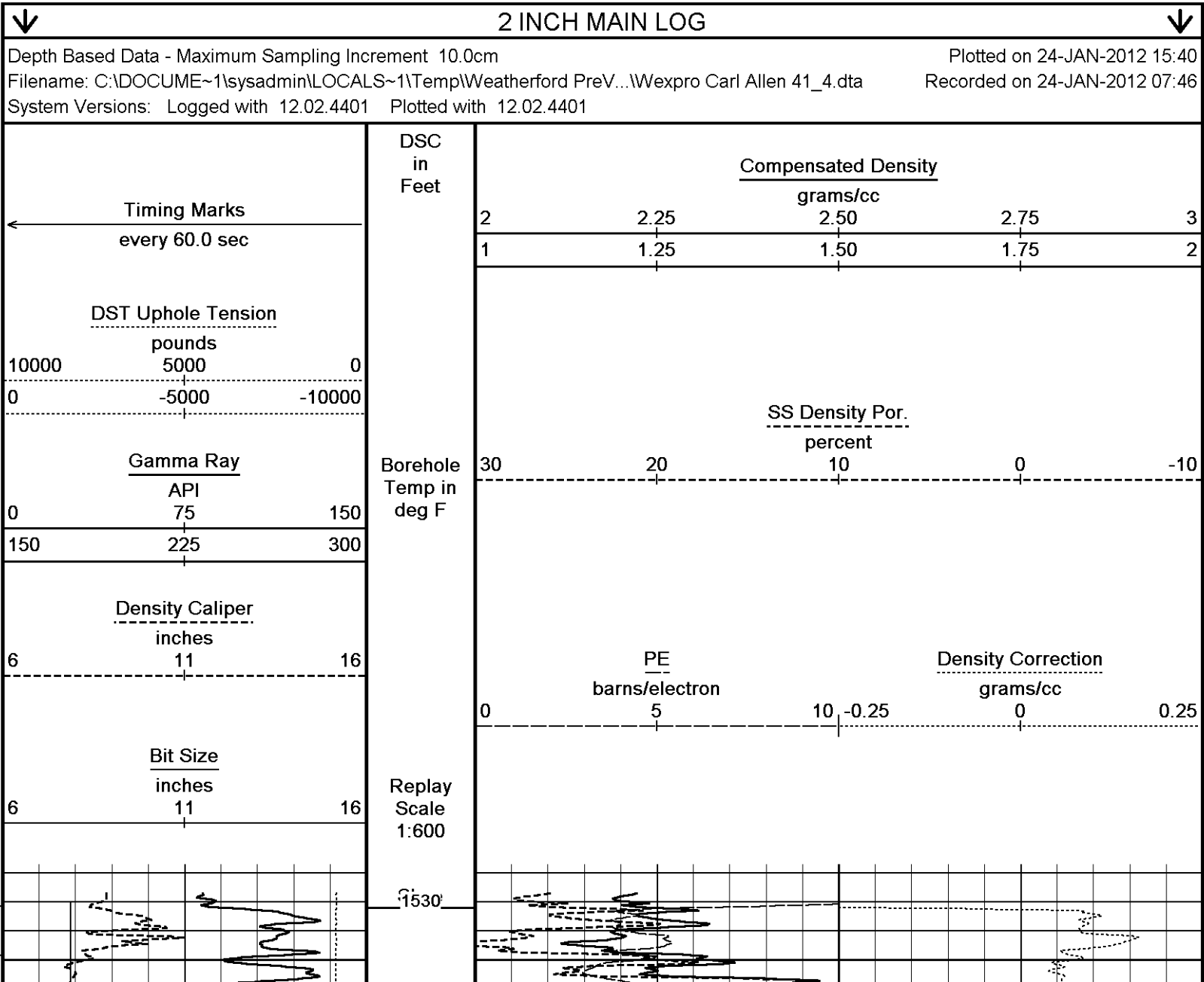
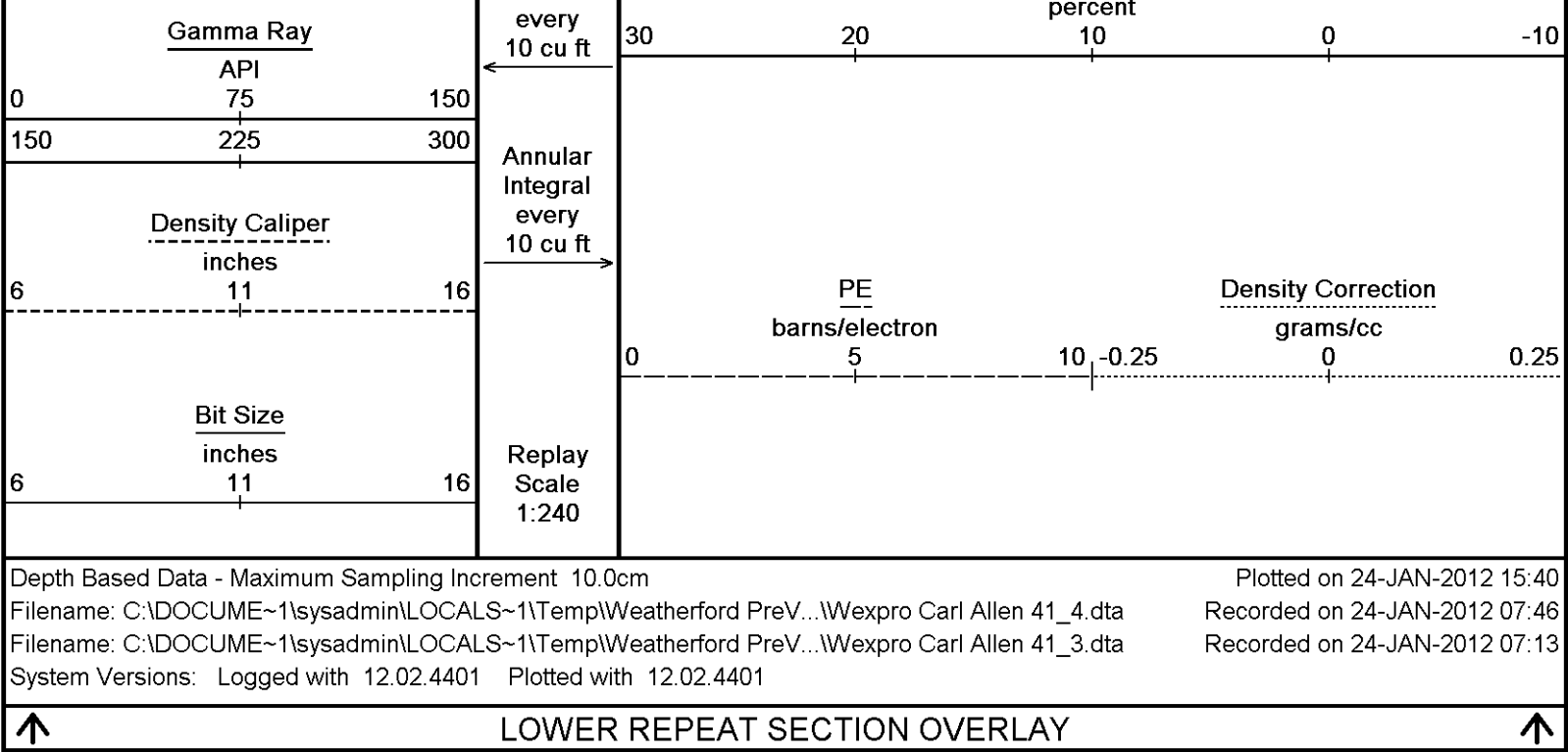
HVI

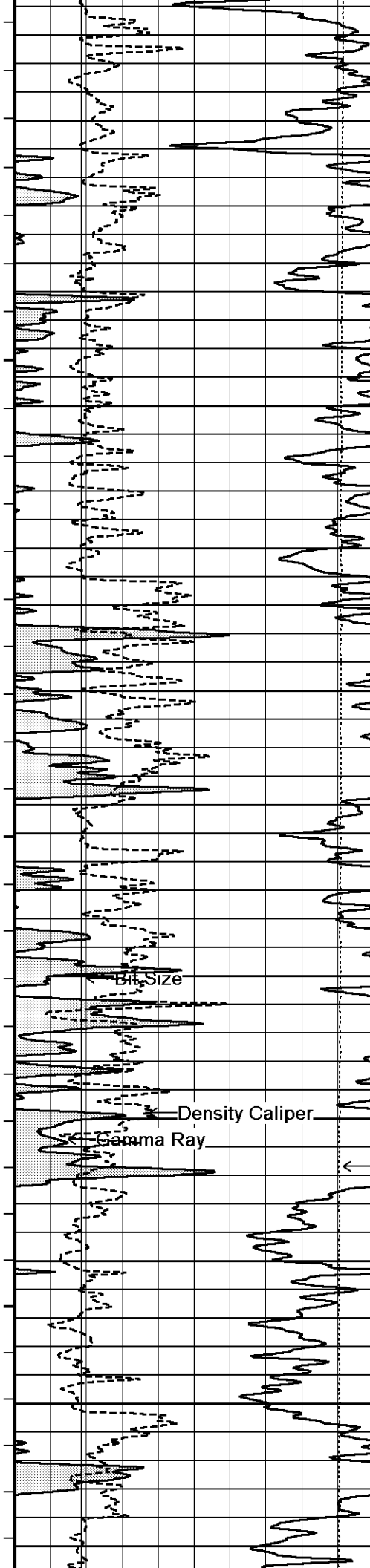


SS Neutron Por.
percent

30 20 10 0 -10

SS Density Por.





1600

97°

1700

98°

1800

99°

1900

SS Density Porosity

Compensated Density

Density Correction

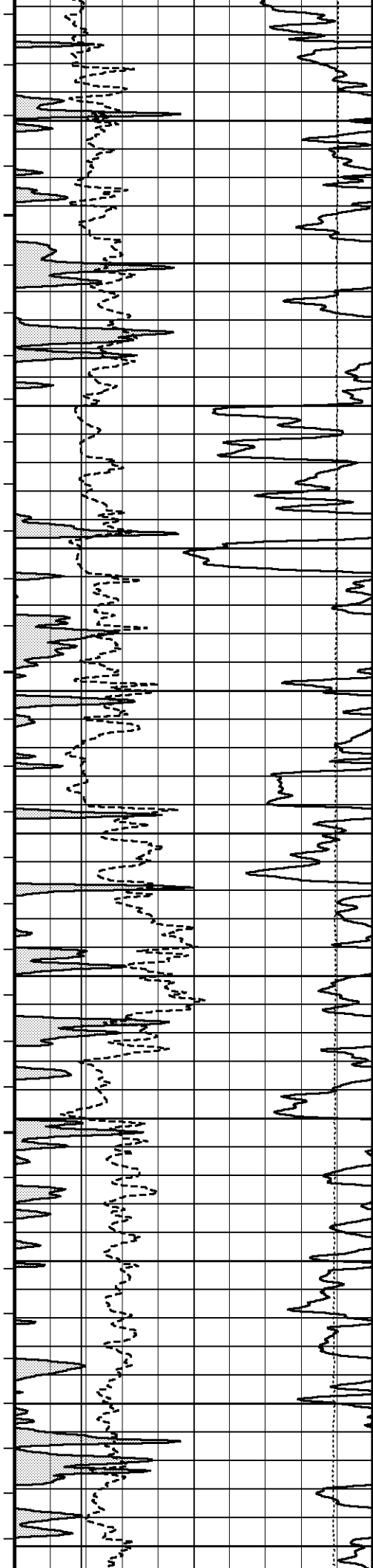
DST Uphole Tension

100°

2000

101°

2100



102°

2200

103°

2300

104°

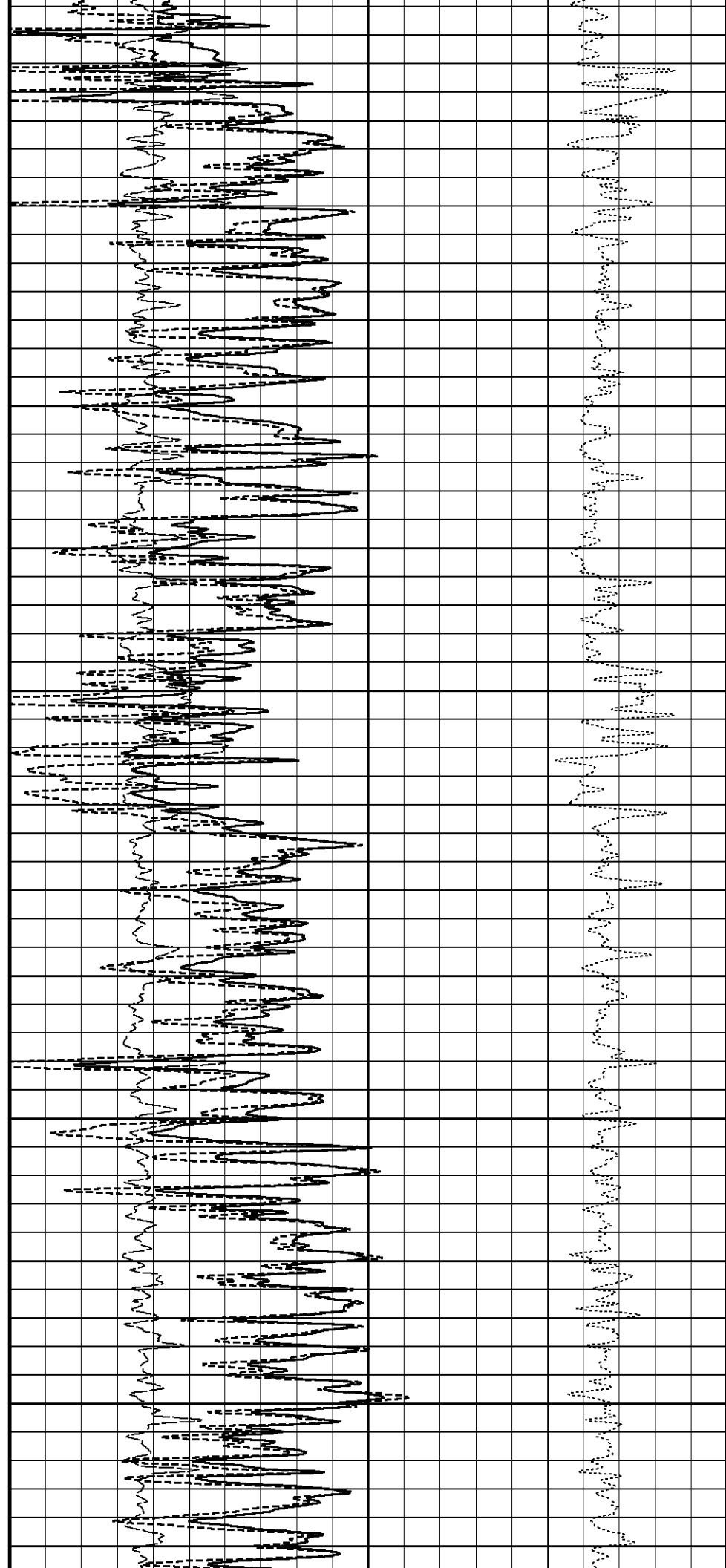
2400

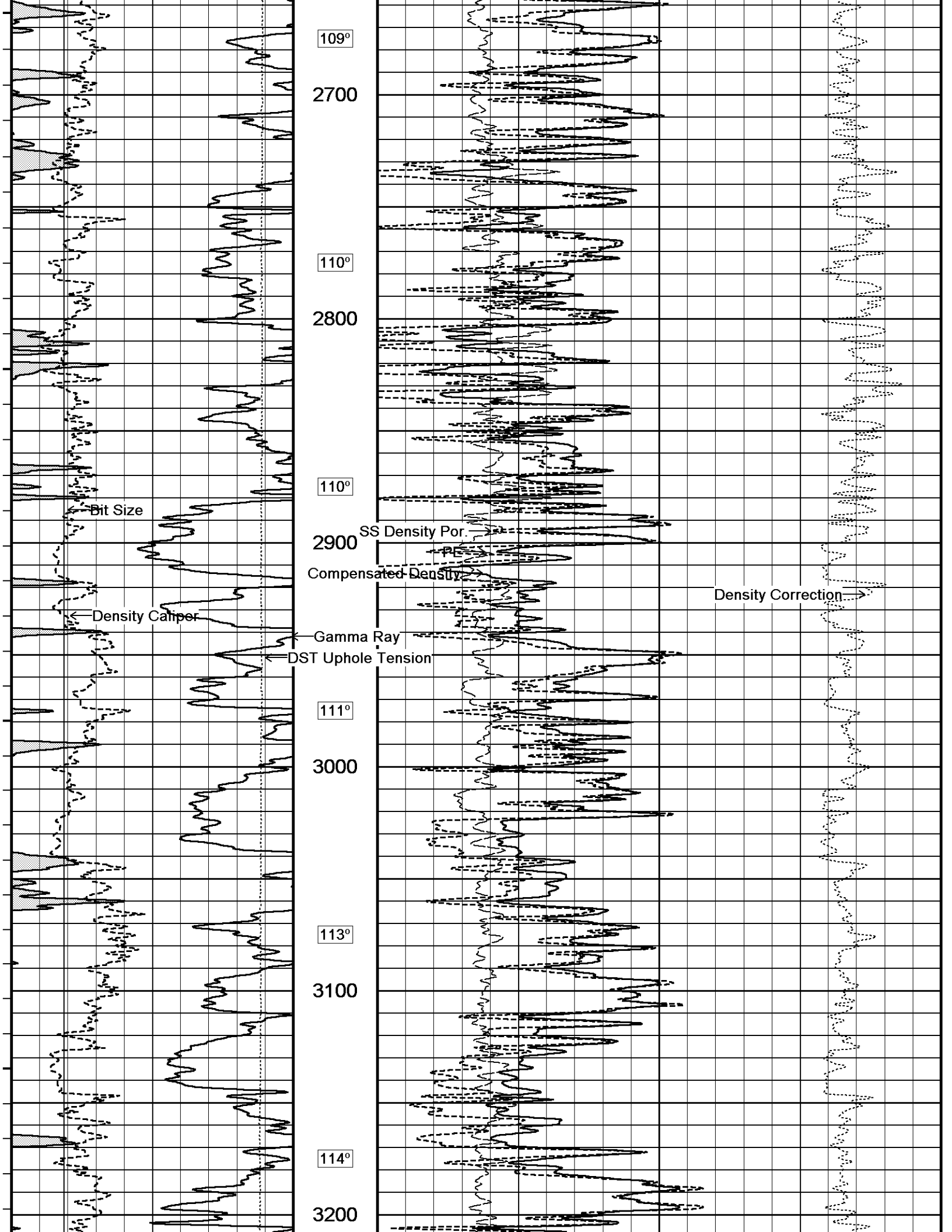
106°

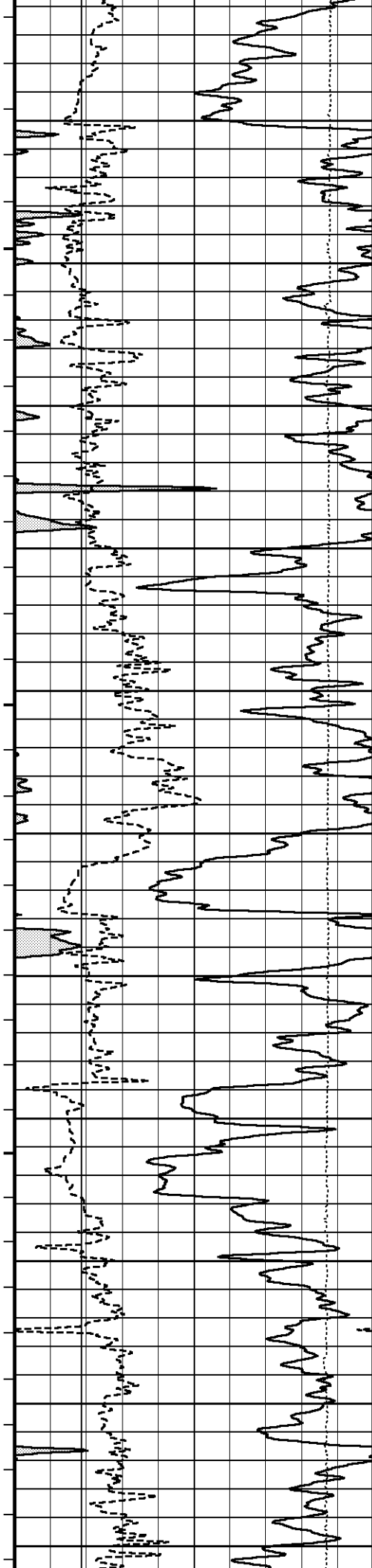
2500

107°

2600







116°

3300

116°

3400

117°

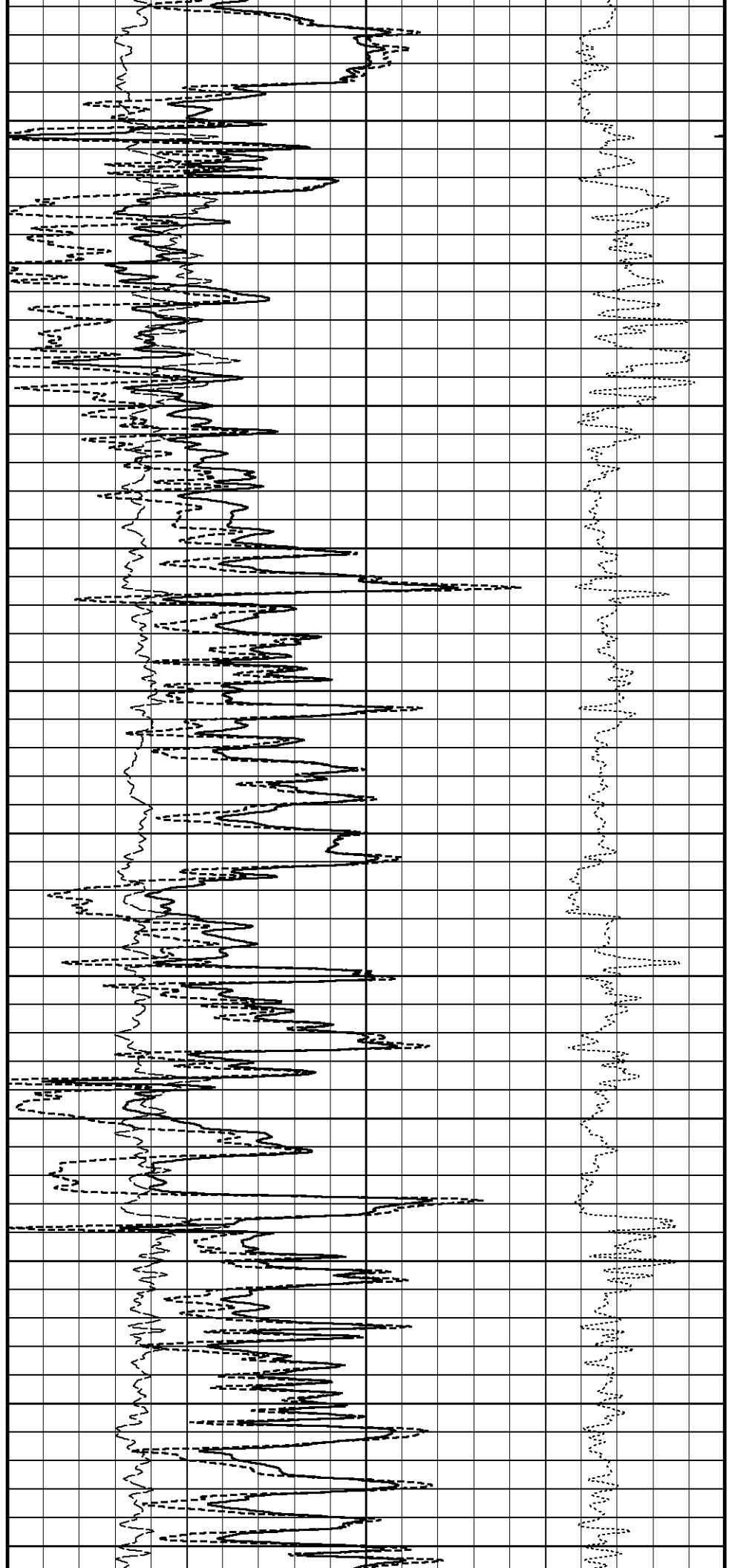
3500

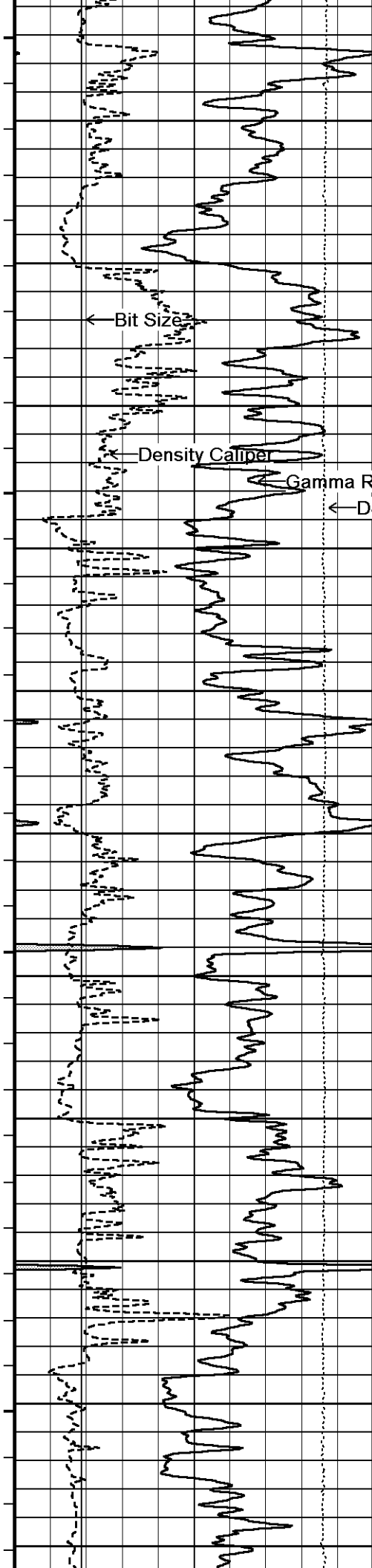
118°

3600

120°

3700





121°

3800

122°

3900

123°

4000

125°

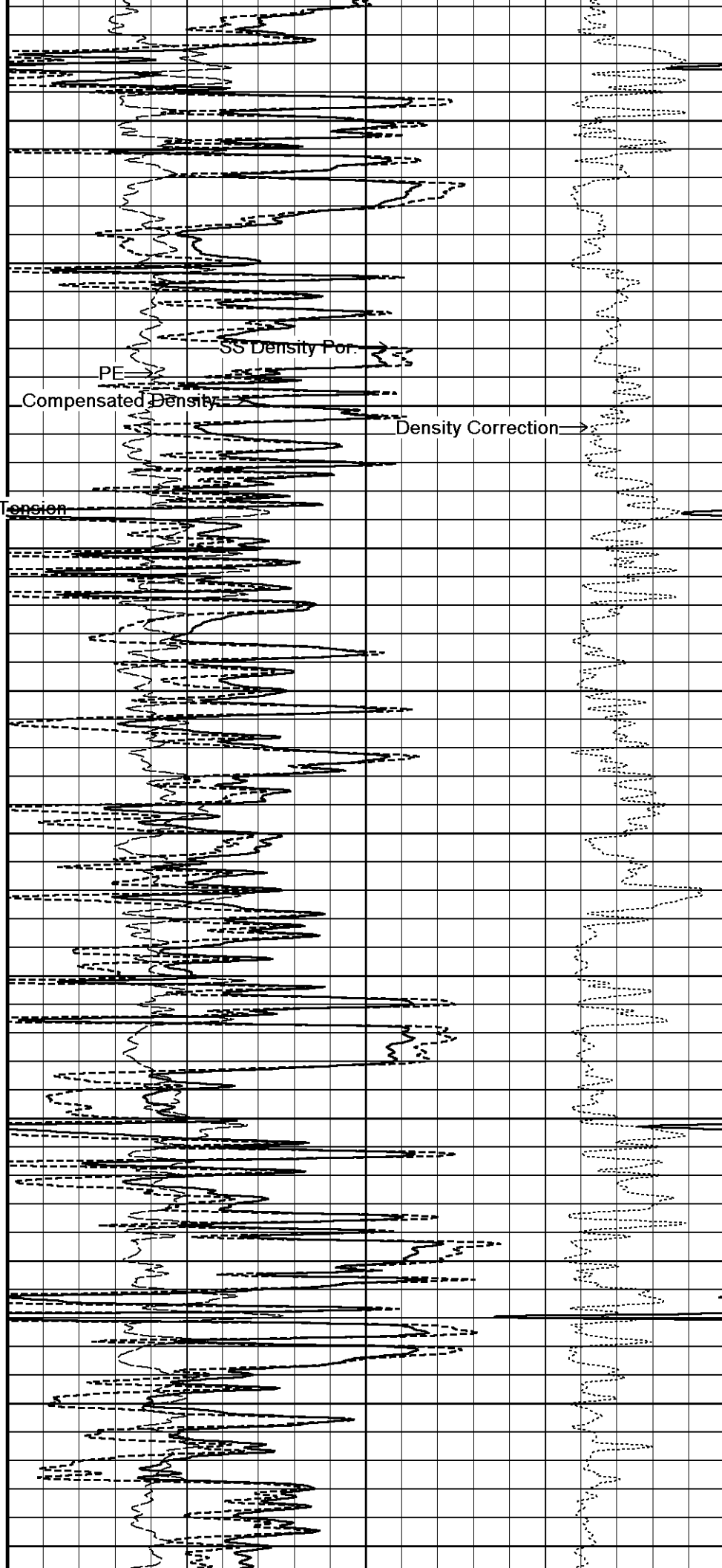
4100

126°

4200

127°

4300

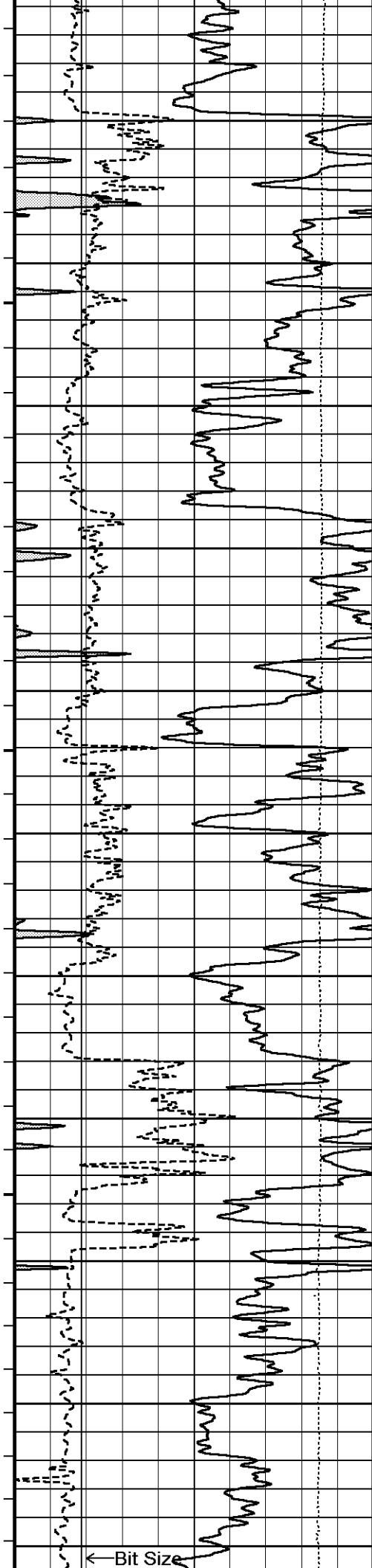


SS Density Por.

PE

Compensated Density

Density Correction



128°

4400

130°

4500

131°

4600

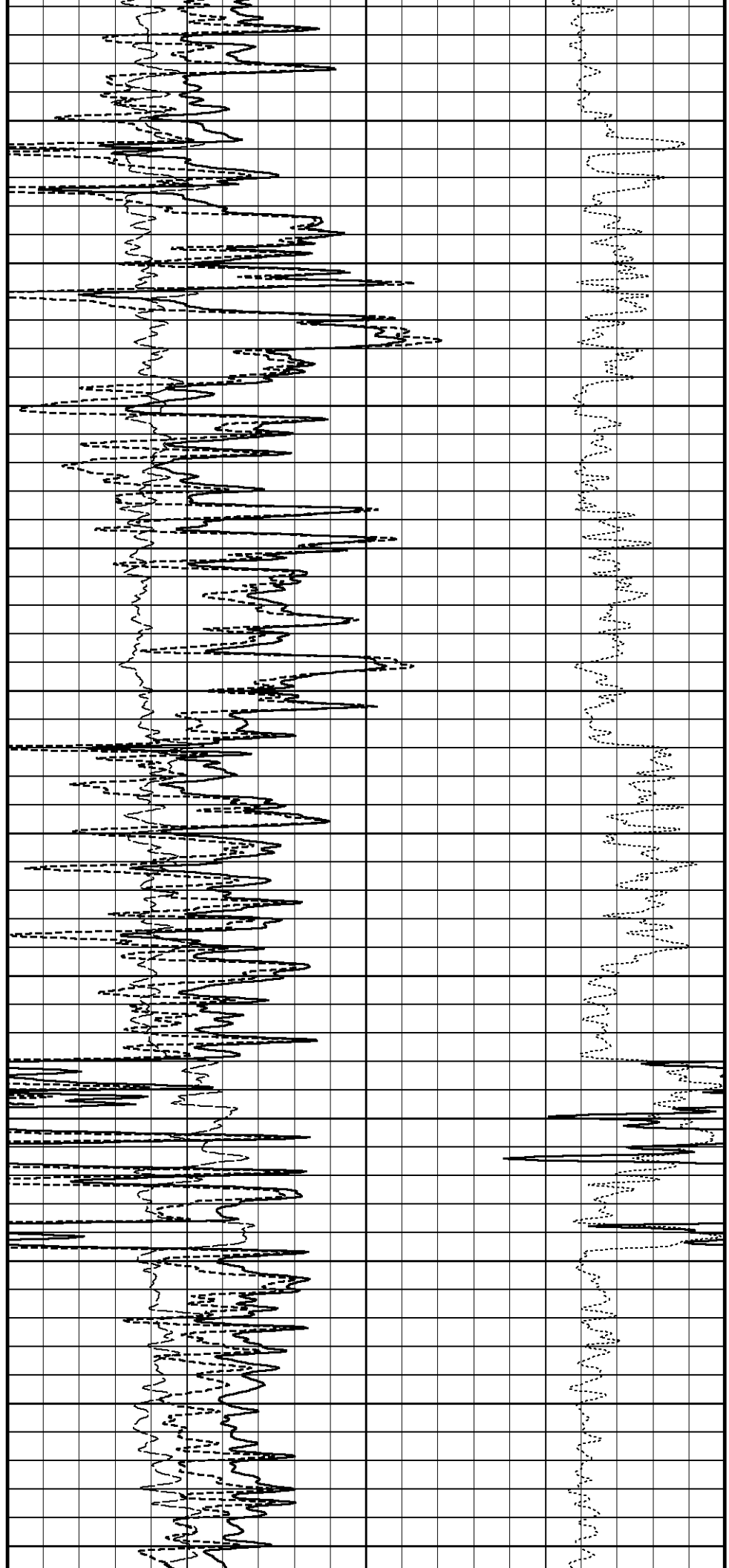
132°

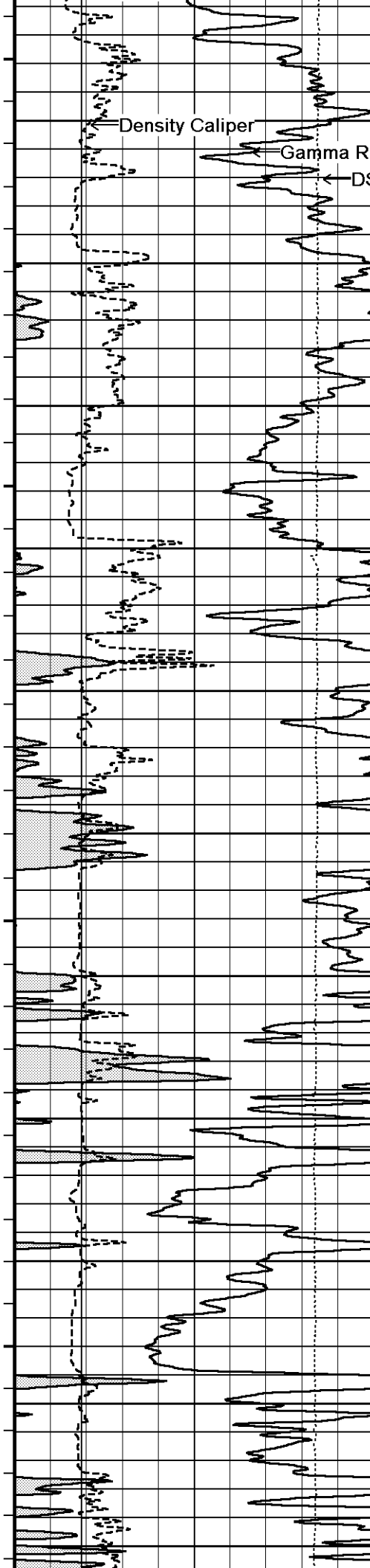
4700

133°

4800

← Bit Size





134°

4900

136°

5000

137°

5100

138°

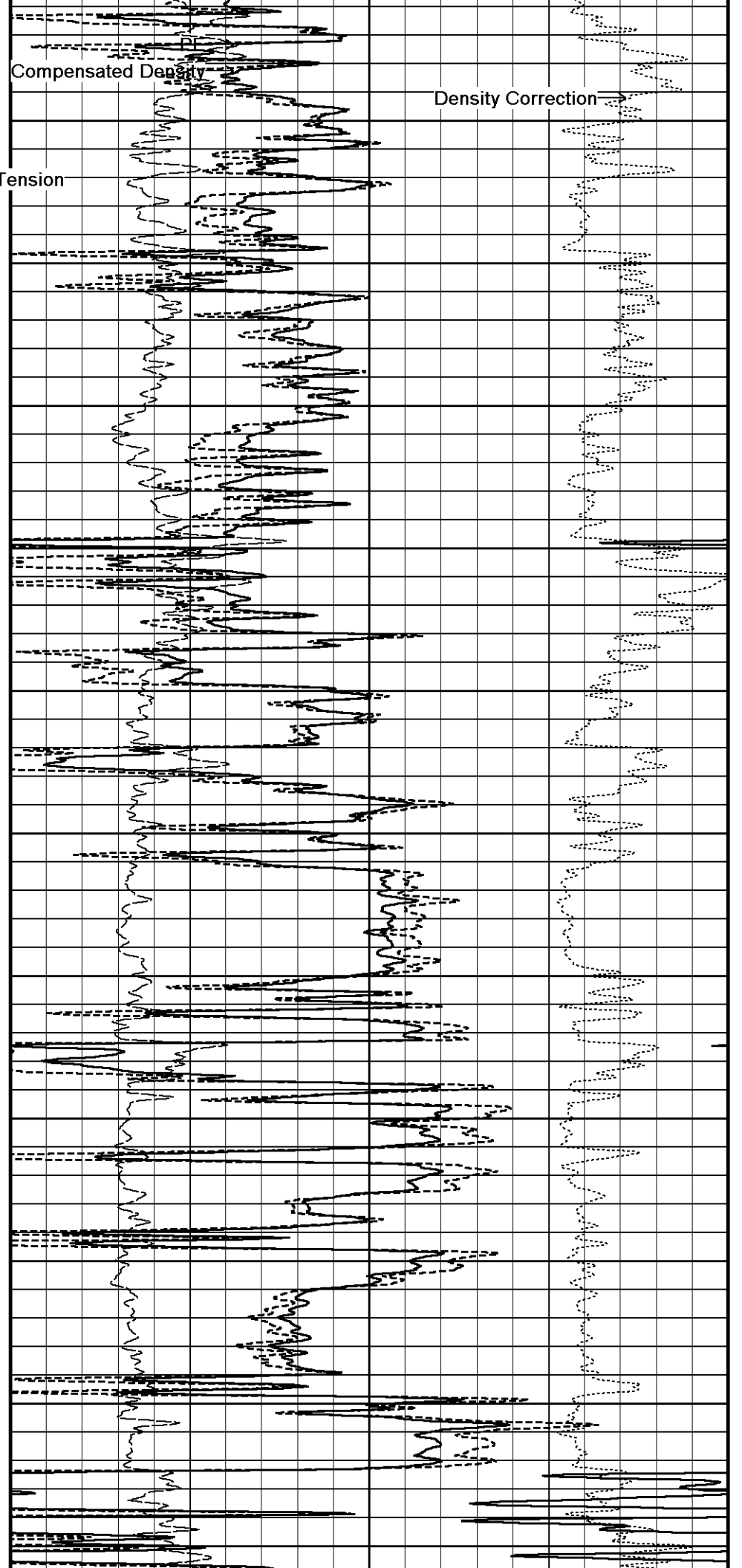
5200

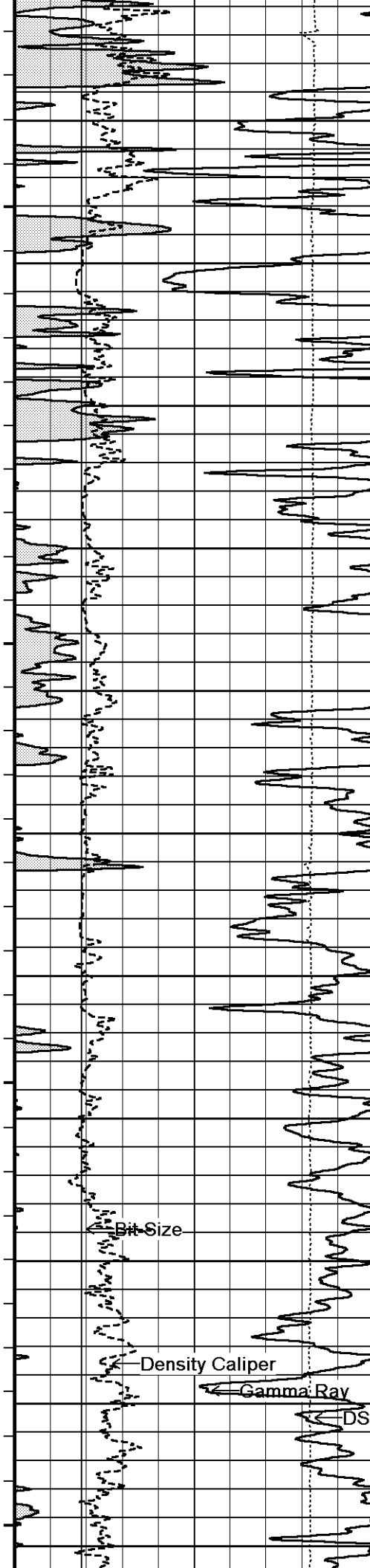
140°

5300

142°

5400





145°

5500

147°

5600

148°

5700

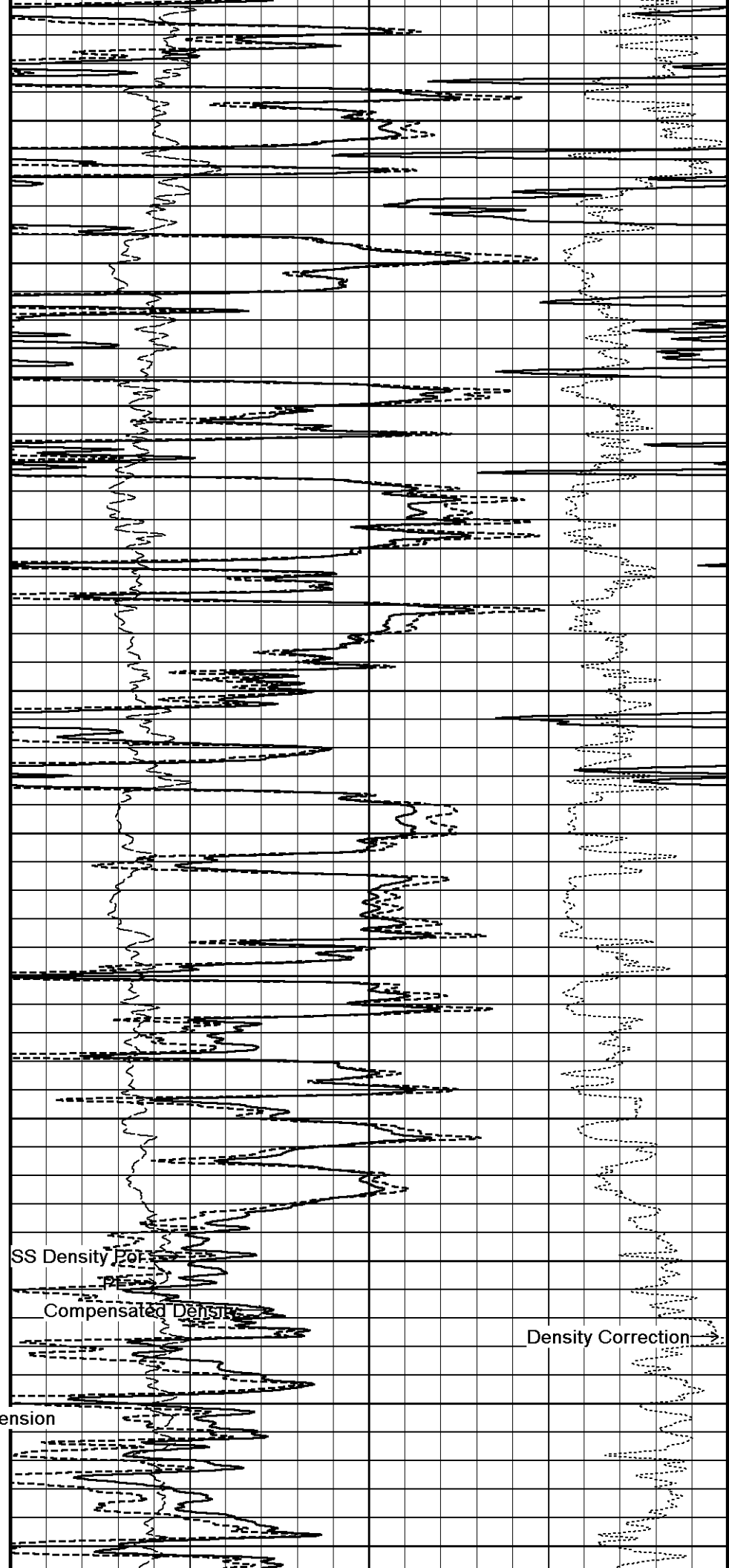
150°

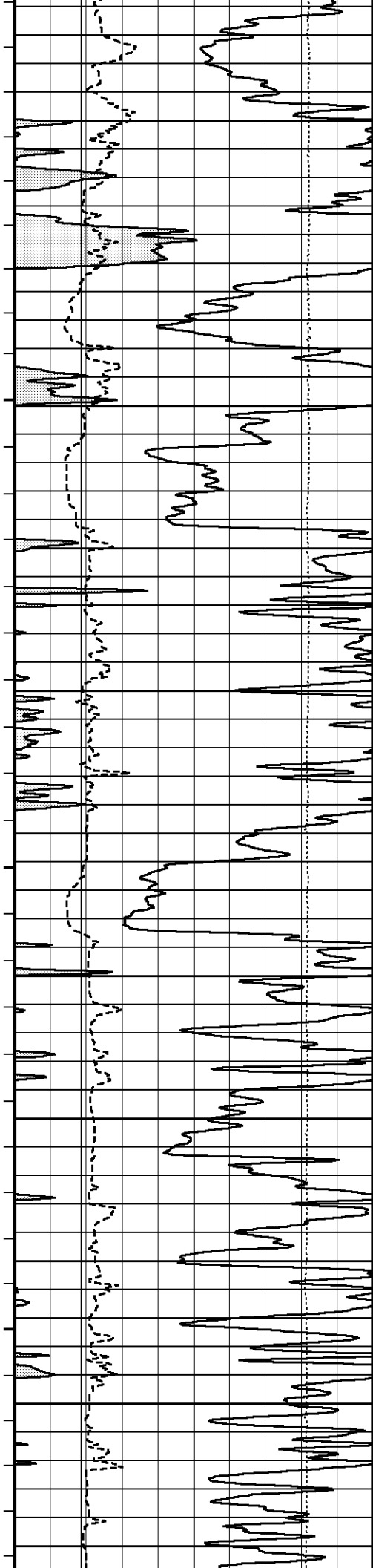
5800

152°

5900

DST Upcore Tension





153°

6000

154°

6100

156°

6200

158°

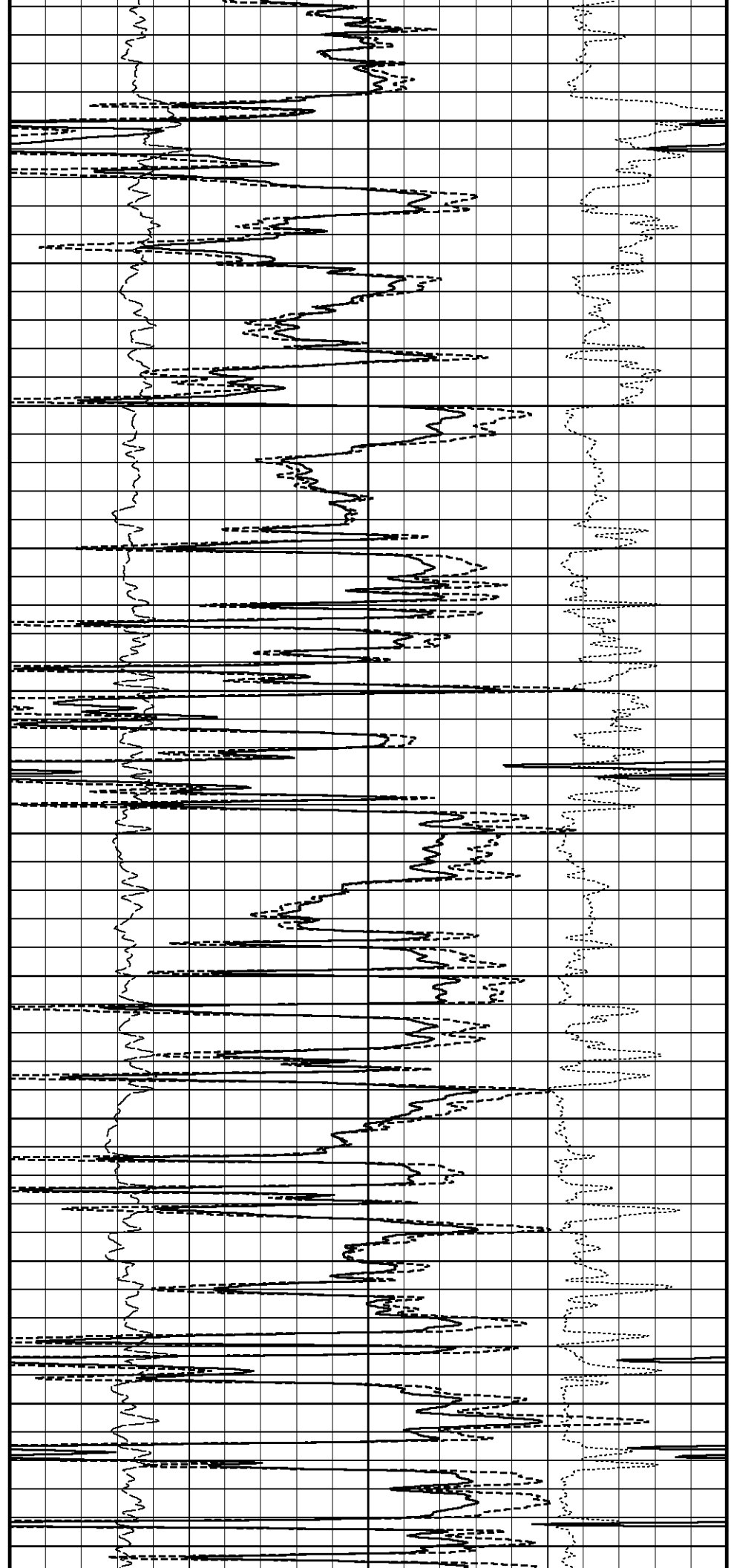
6300

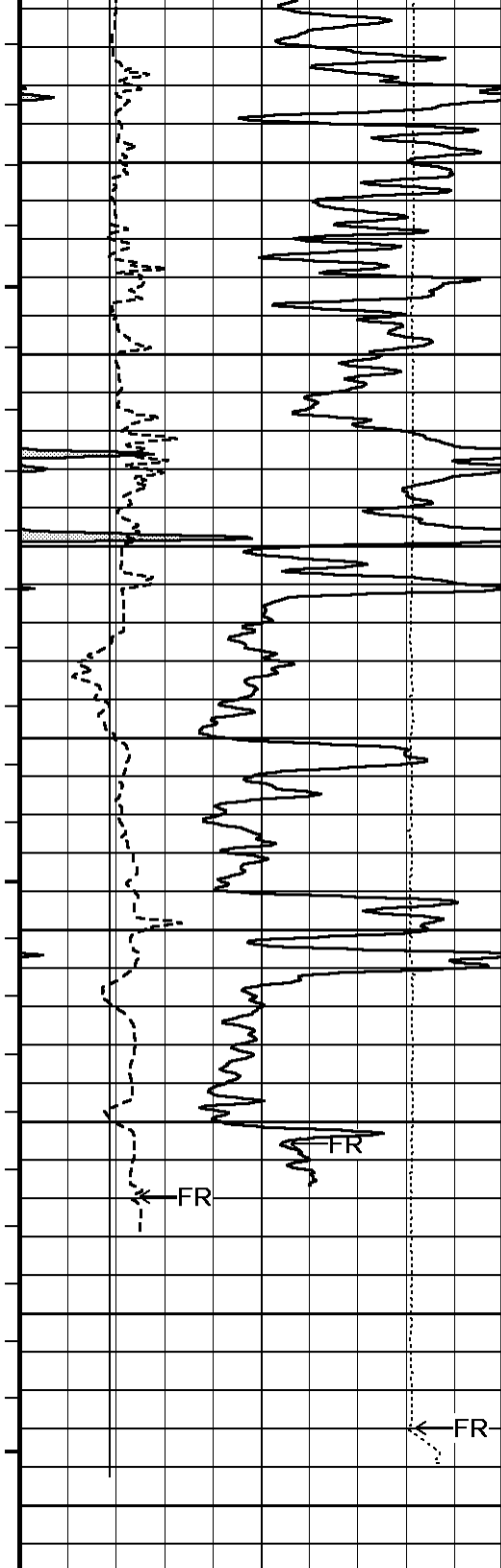
159°

6400

161°

6500





162°

6600

165°

6700

165°

6800

TD

6900

DSC
in
Feet

Timing Marks
every 60.0 sec

DST Uphole Tension

pounds

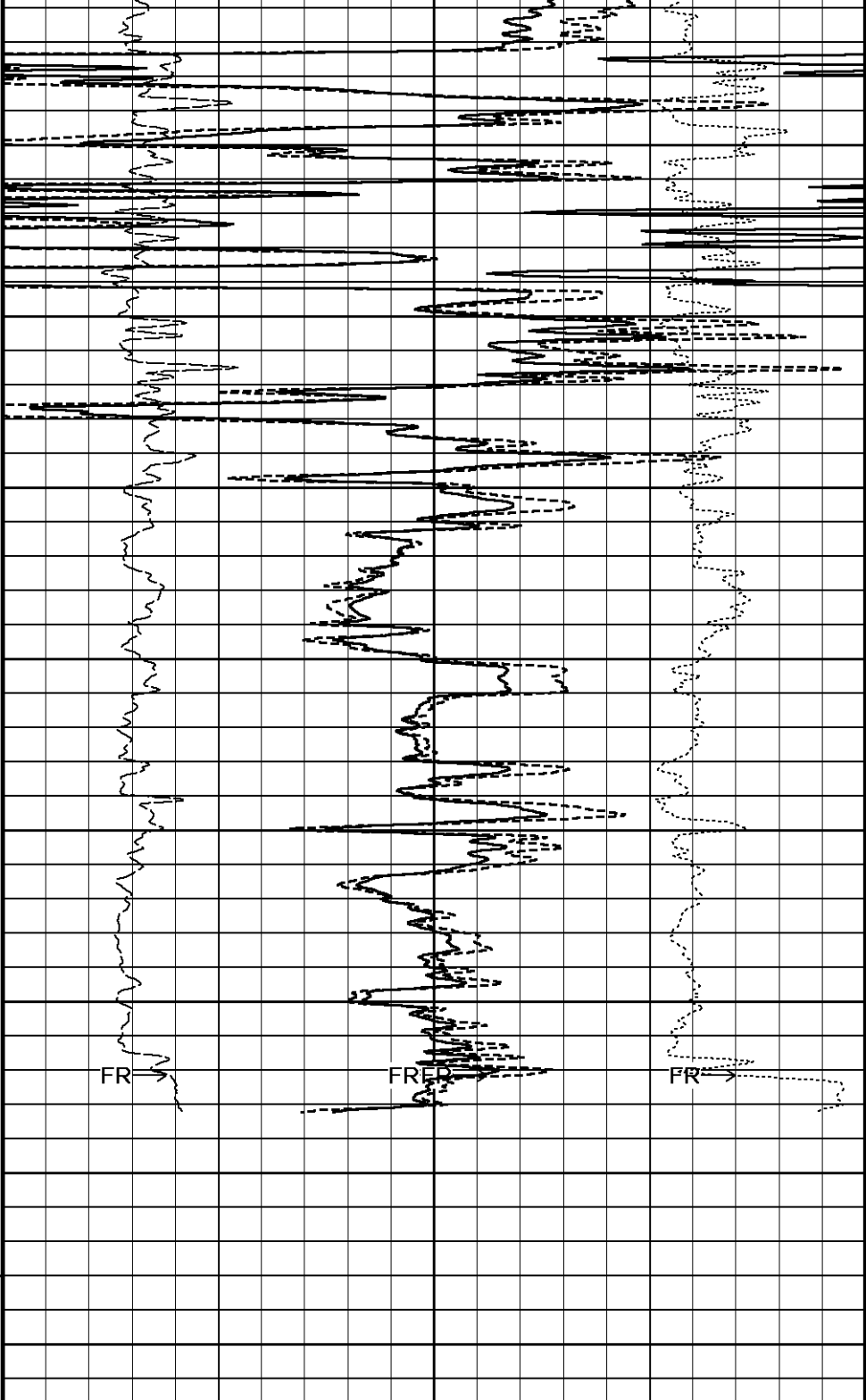
10000 5000 0
0 -5000 -10000

Gamma Ray

API

0 75 150

Borehole
Temp in
deg F

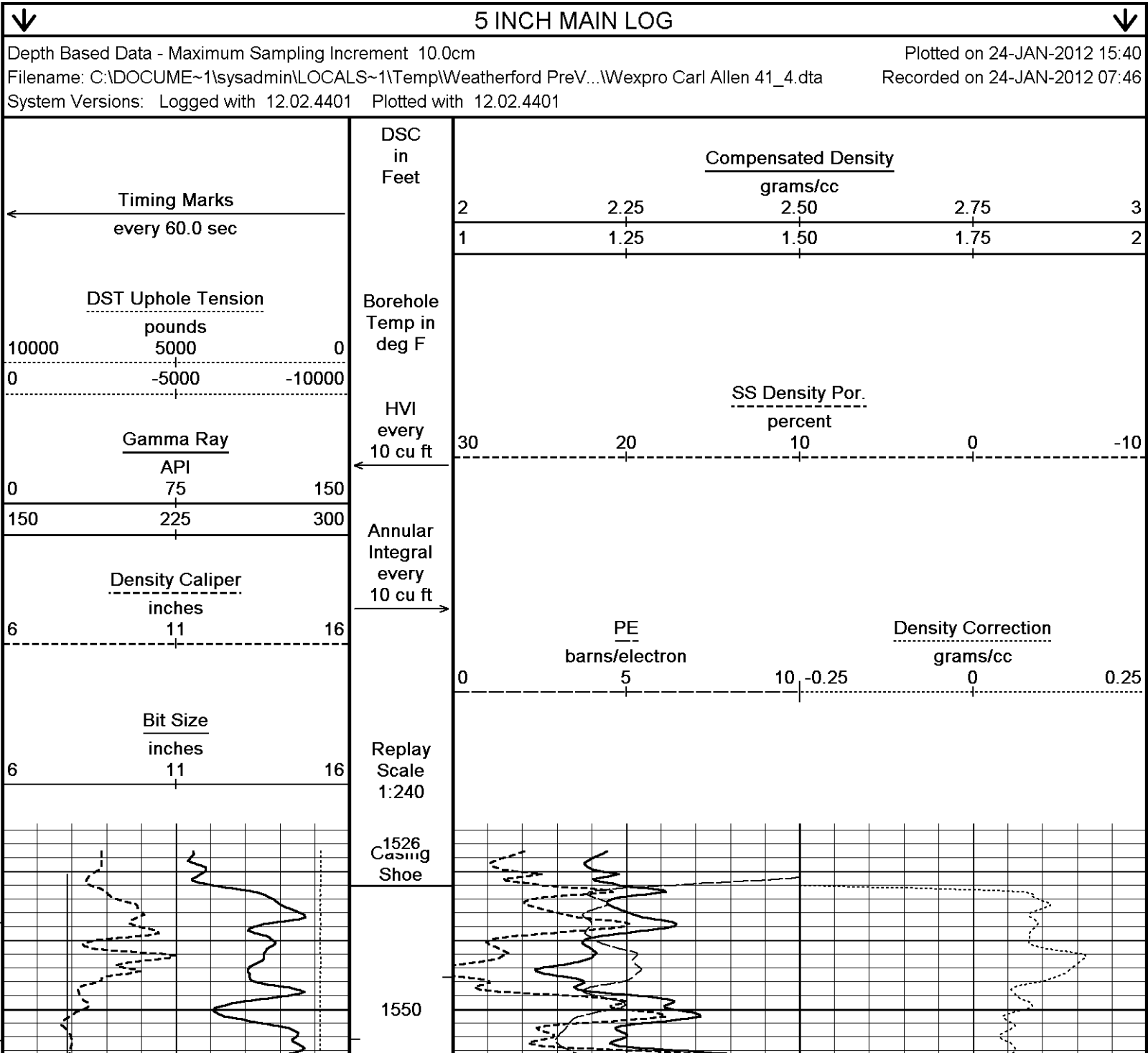
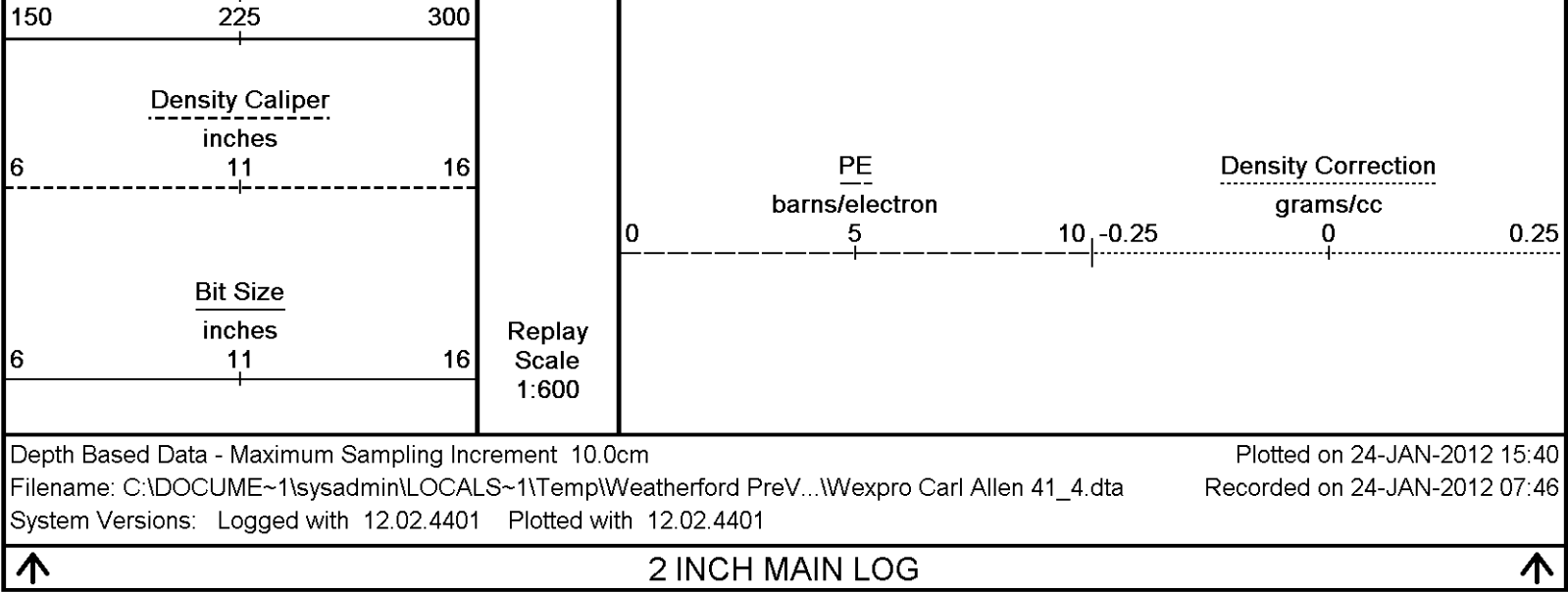


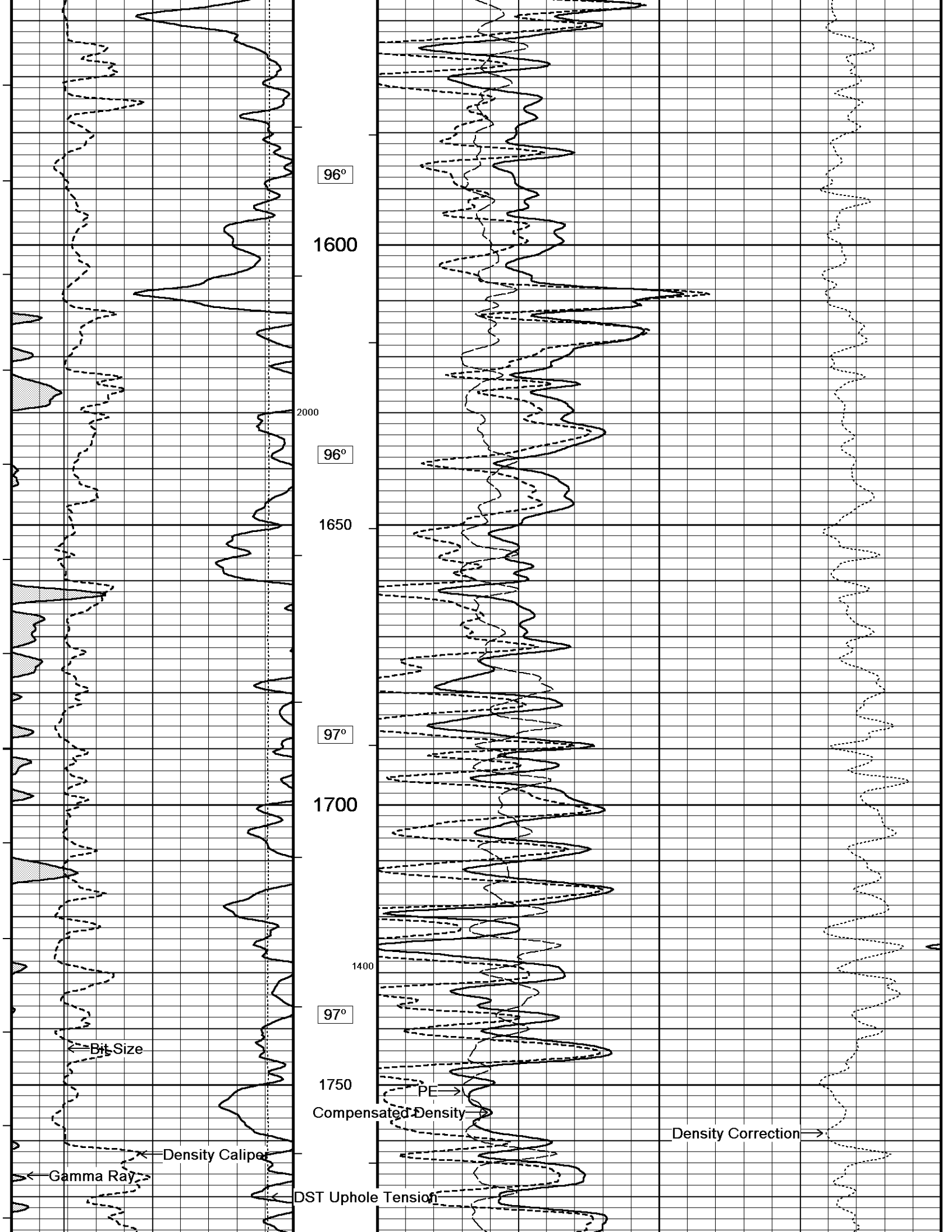
Compensated Density
grams/cc

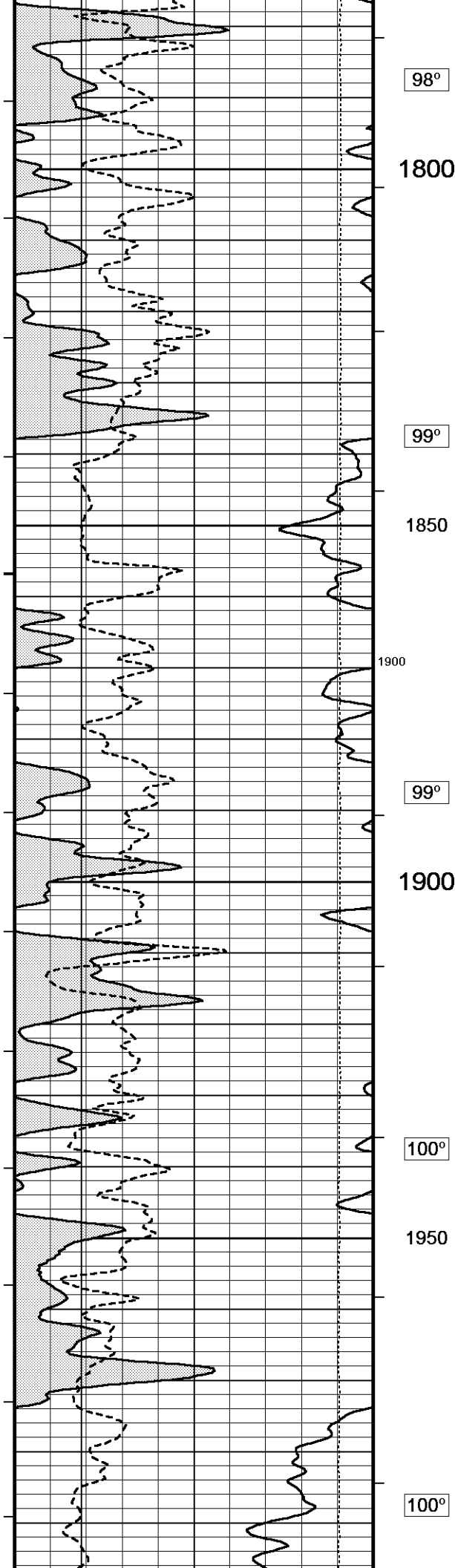
2 2.25 2.50 2.75 3
1 1.25 1.50 1.75 2

SS Density Por.
percent

30 20 10 0 -10







98°

1800

99°

1850

1900

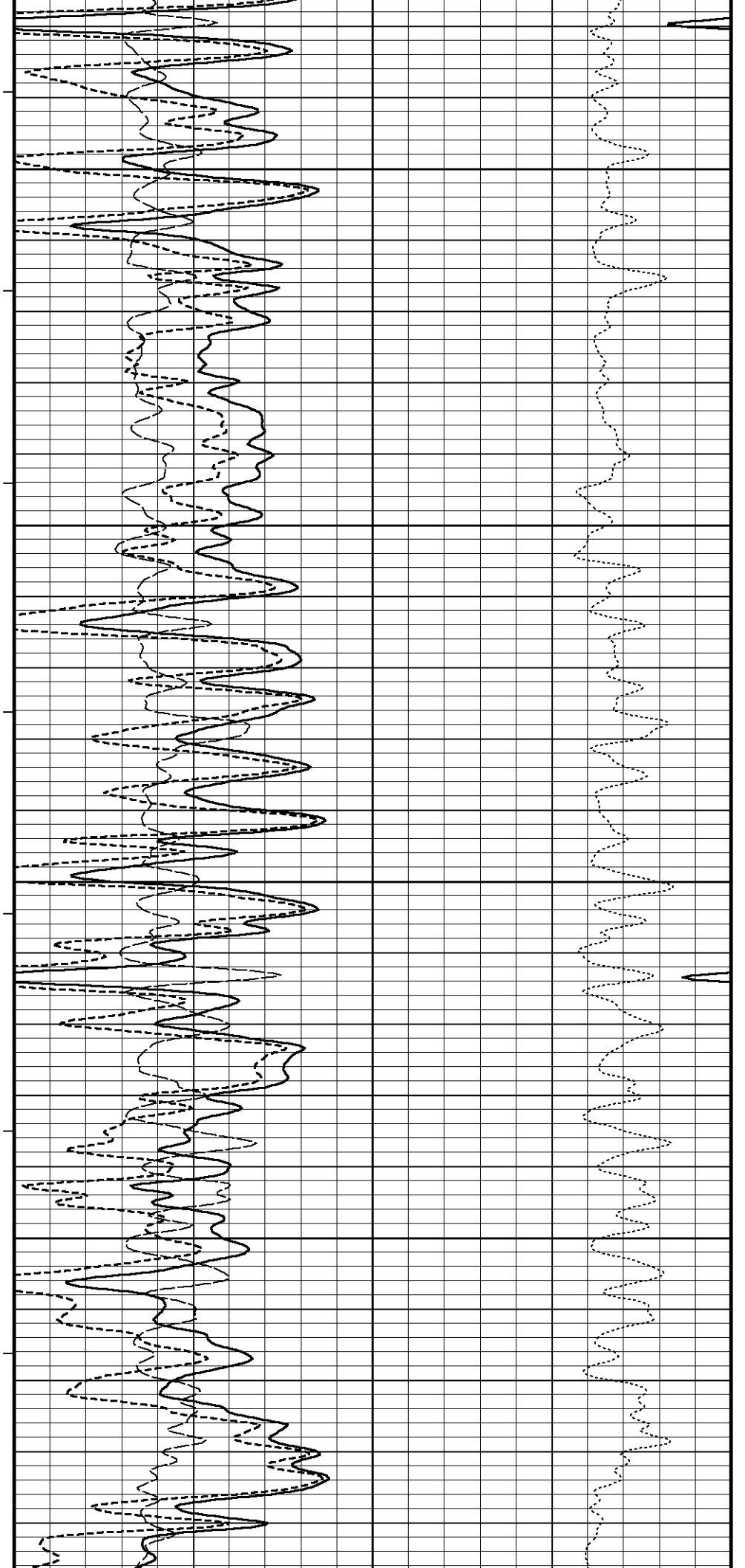
99°

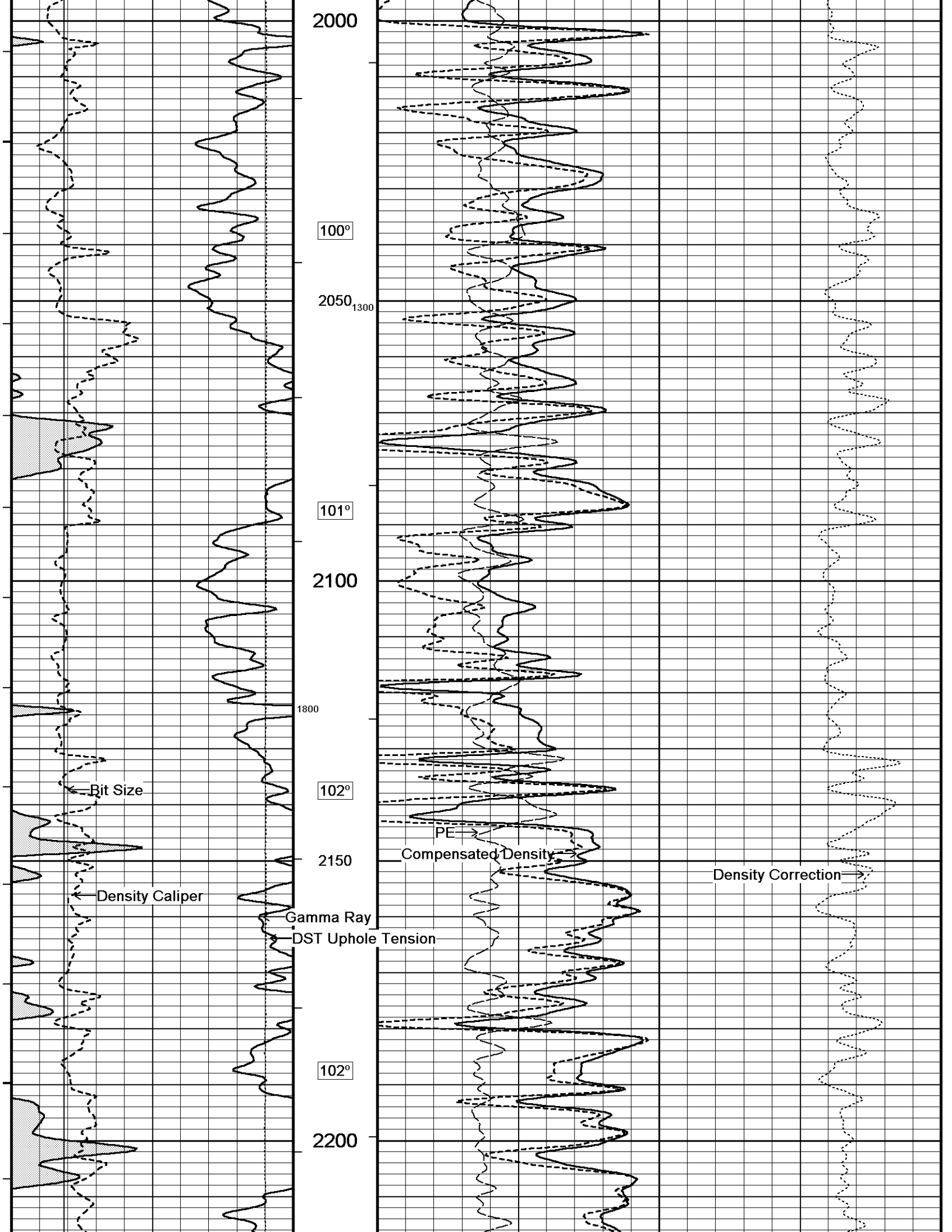
1900

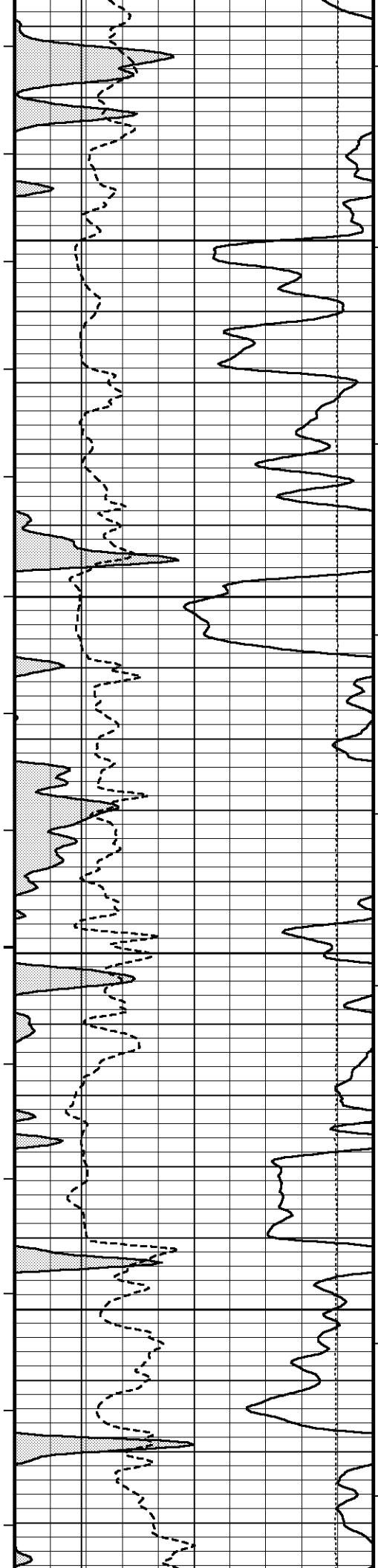
100°

1950

100°







103°

2250

103°

2300

104°

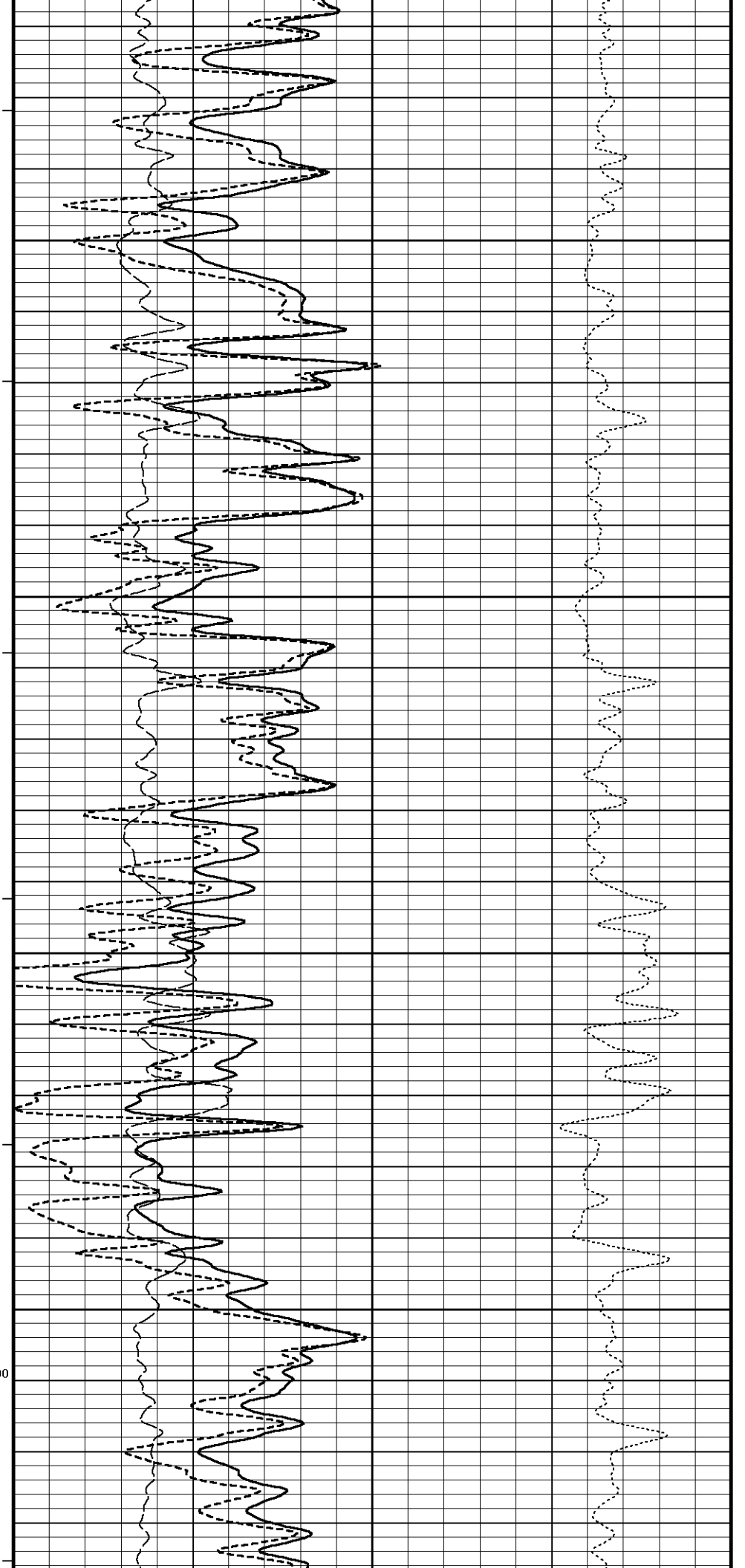
2350

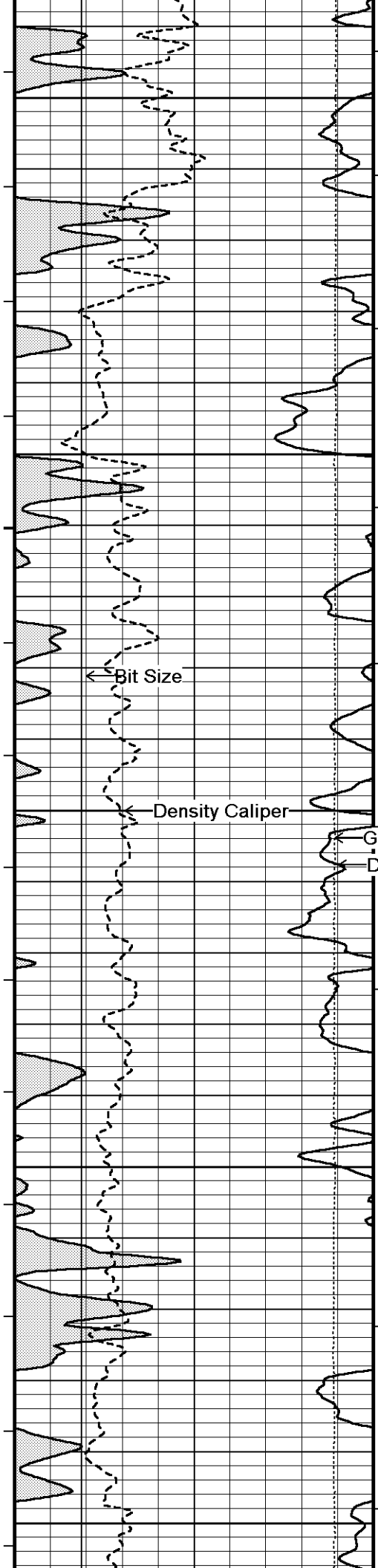
1700

104°

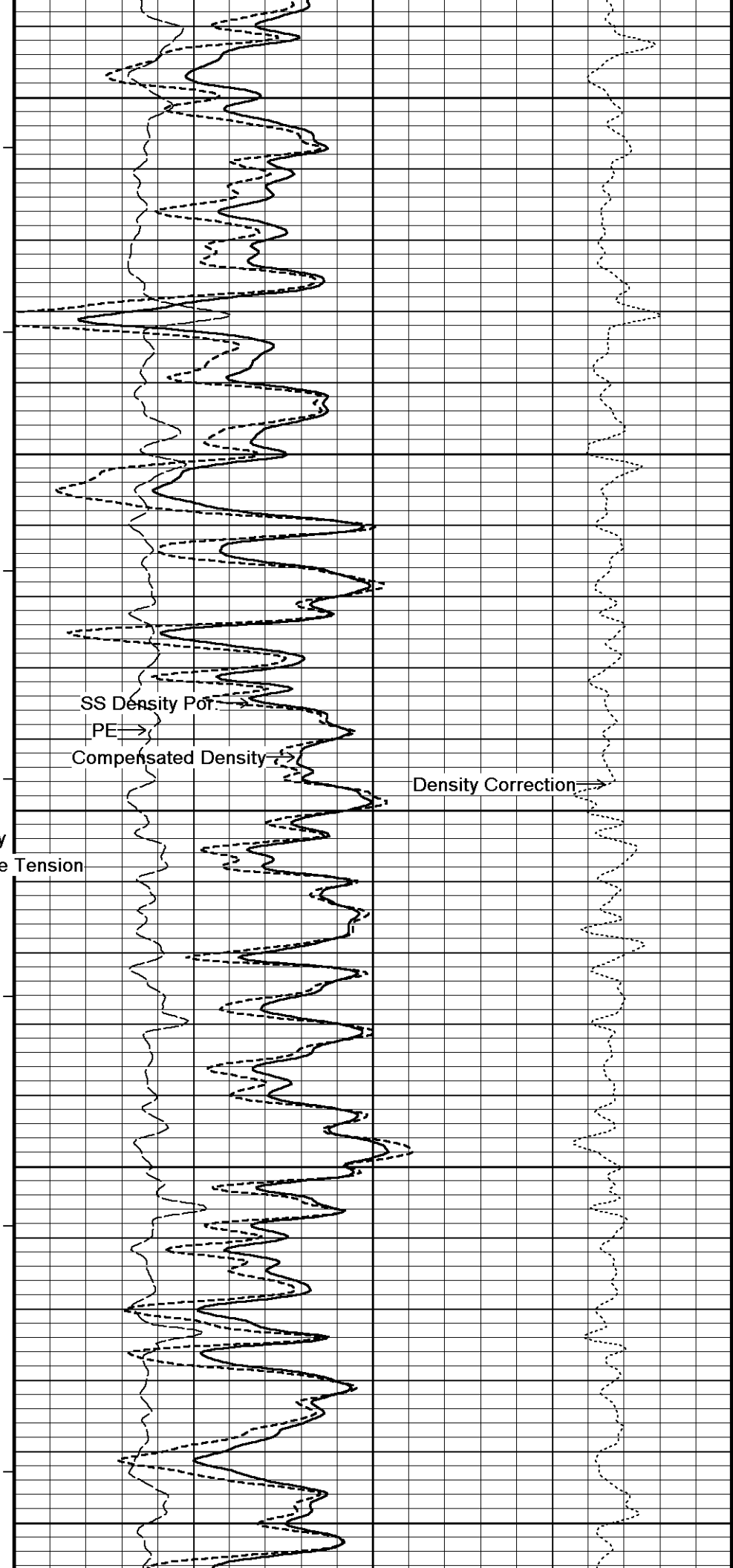
2400

1200

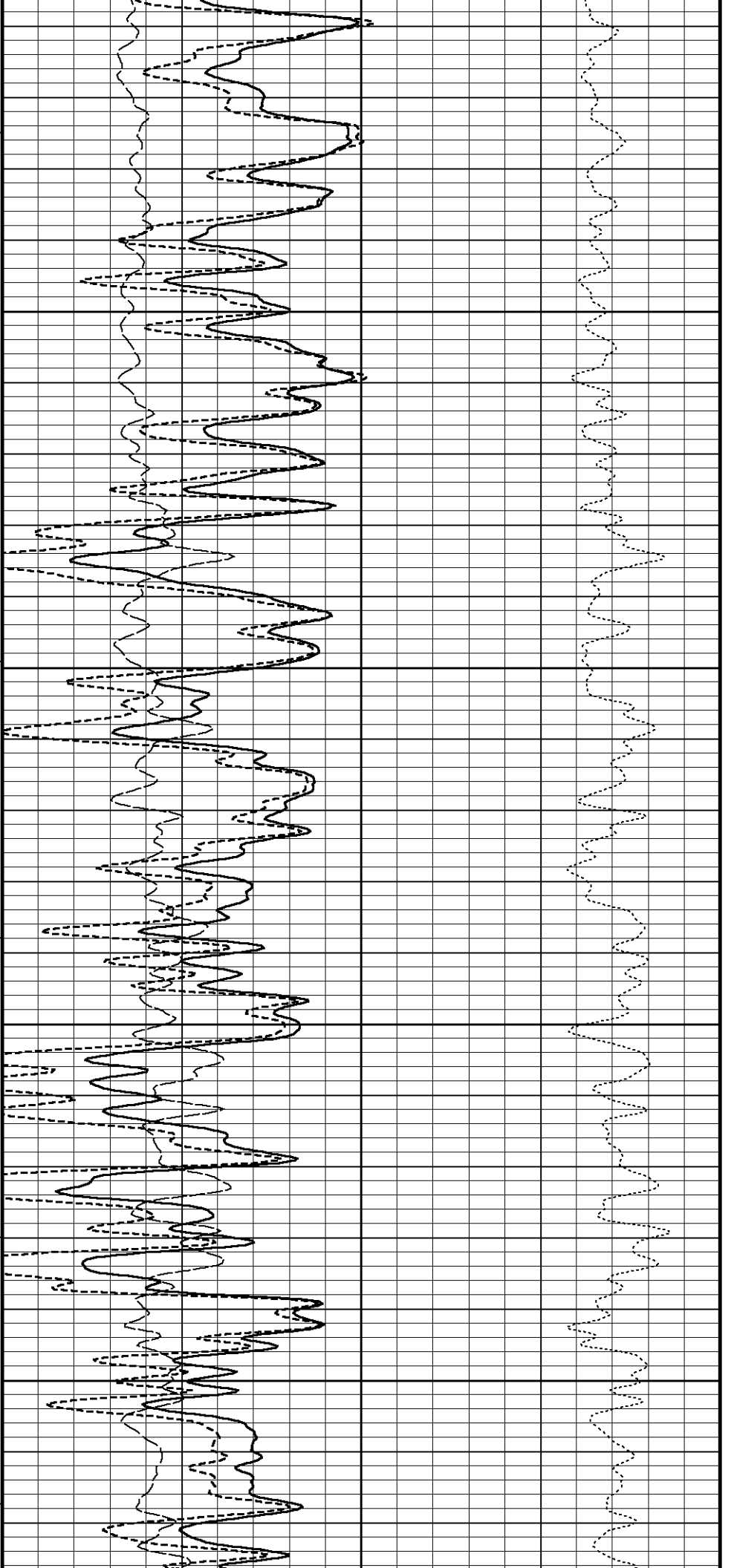
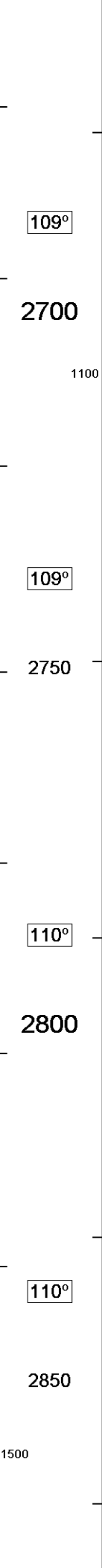
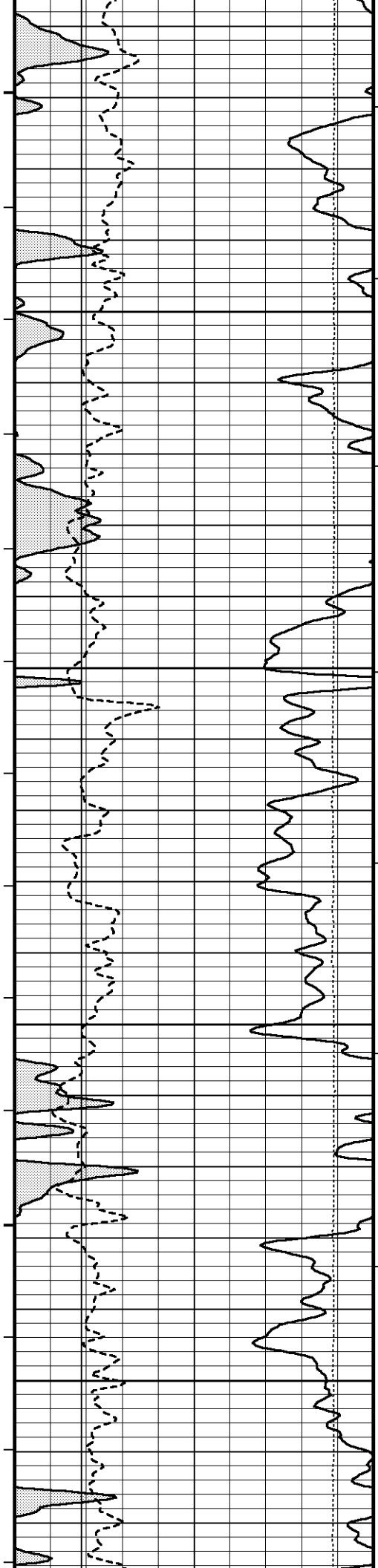


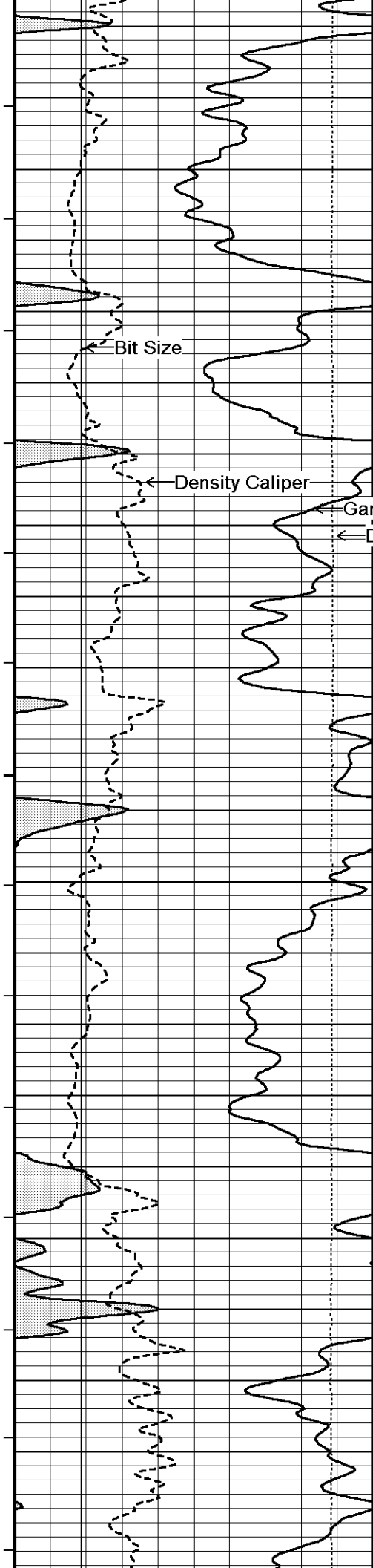


105°
2450
106°
2500
107°
2550
107°
2600
108°
2650



SS Density Por.
PE
Compensated Density
Density Correction





110°

2900

SS Density Pot

PE

Compensated Density

Density Correction

111°

Gamma Ray

DST Up-hole Tension

112°

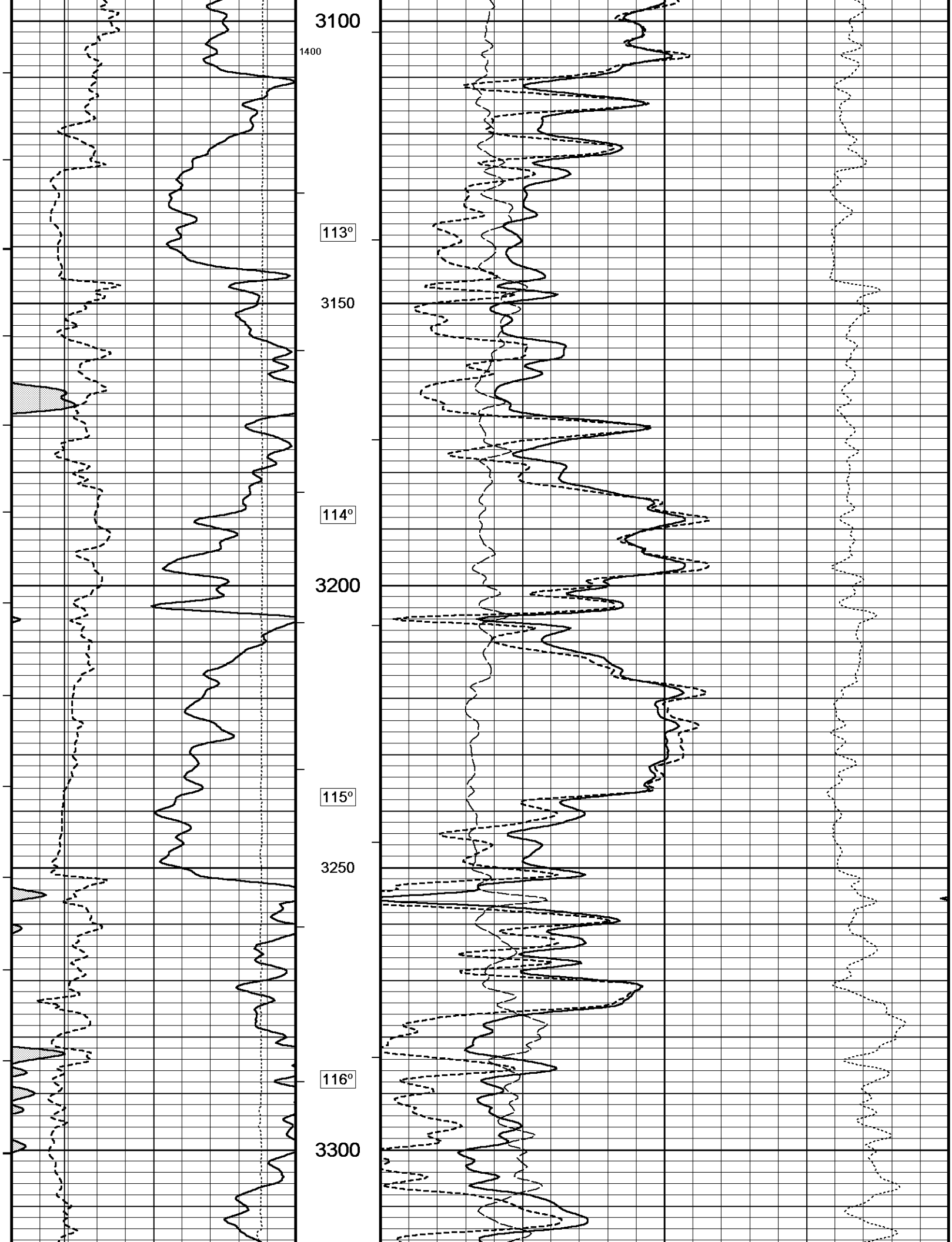
3000

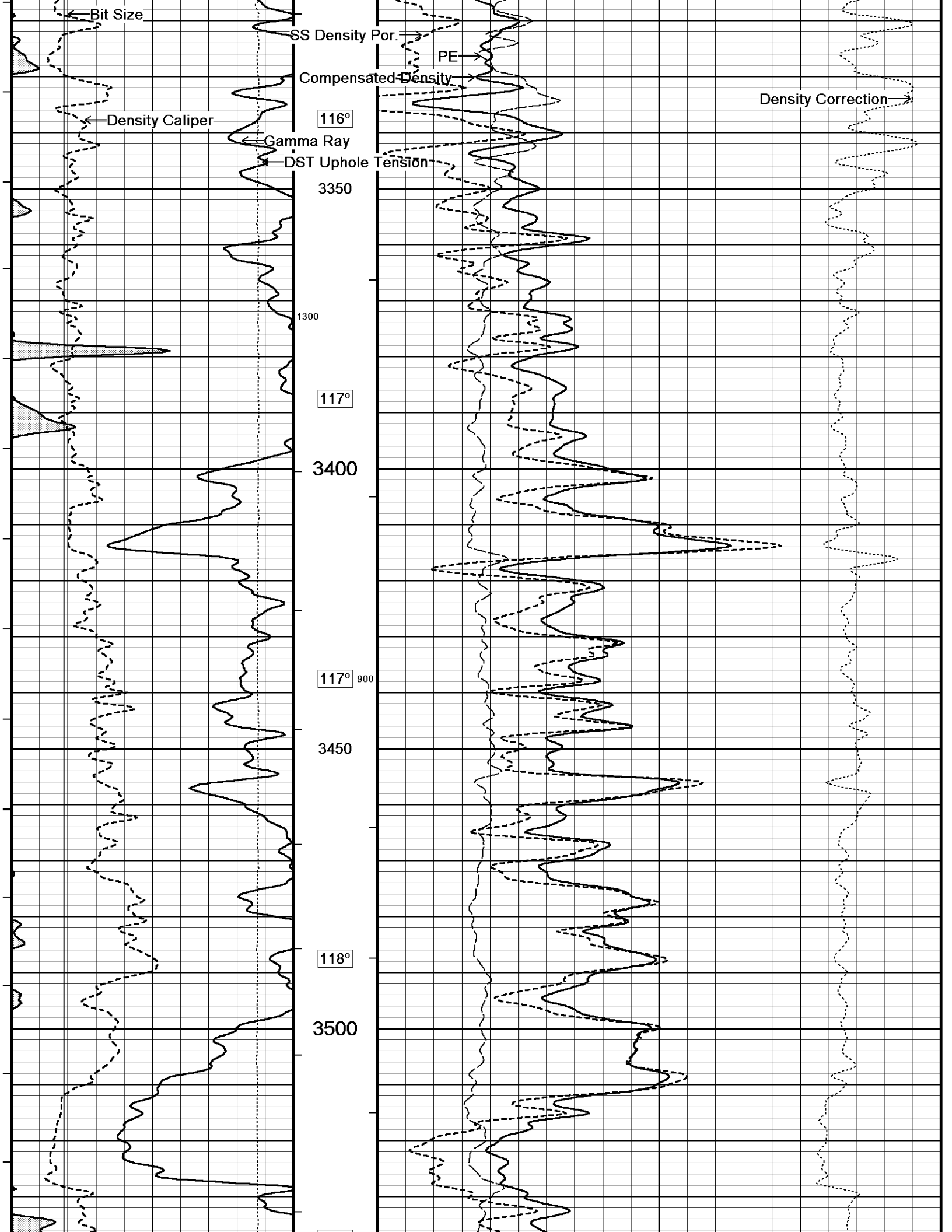
112°

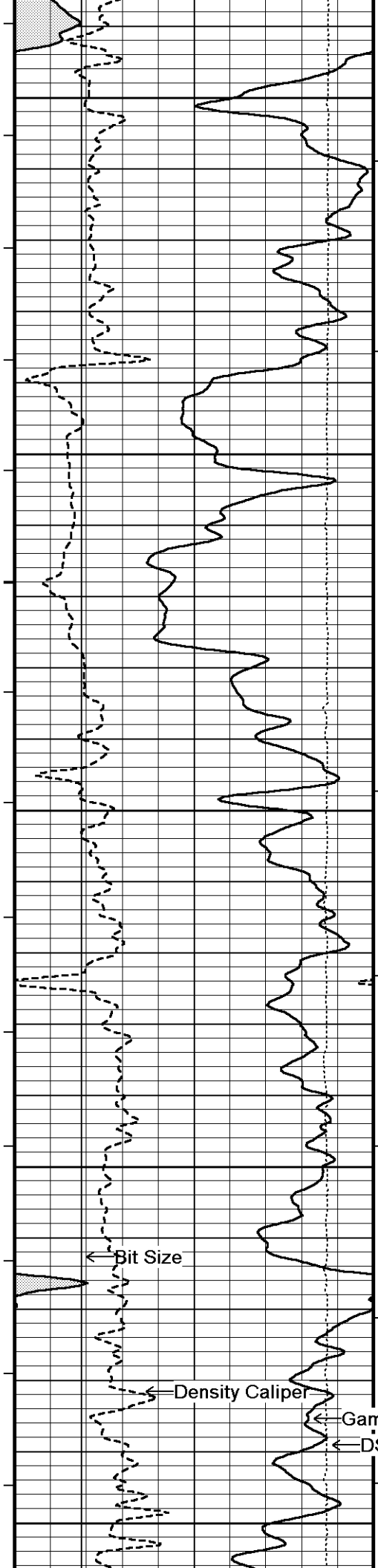
3050

1000

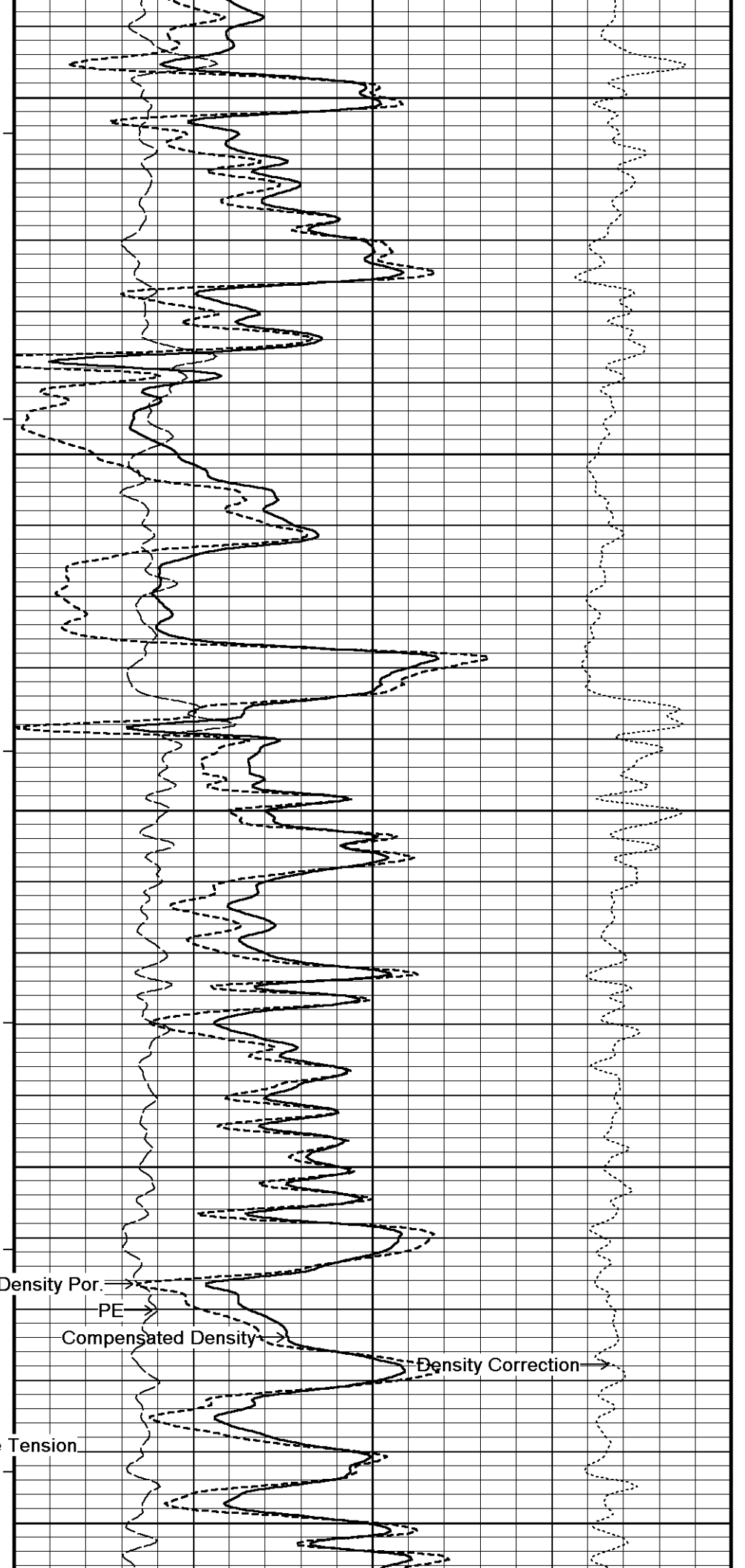
113°



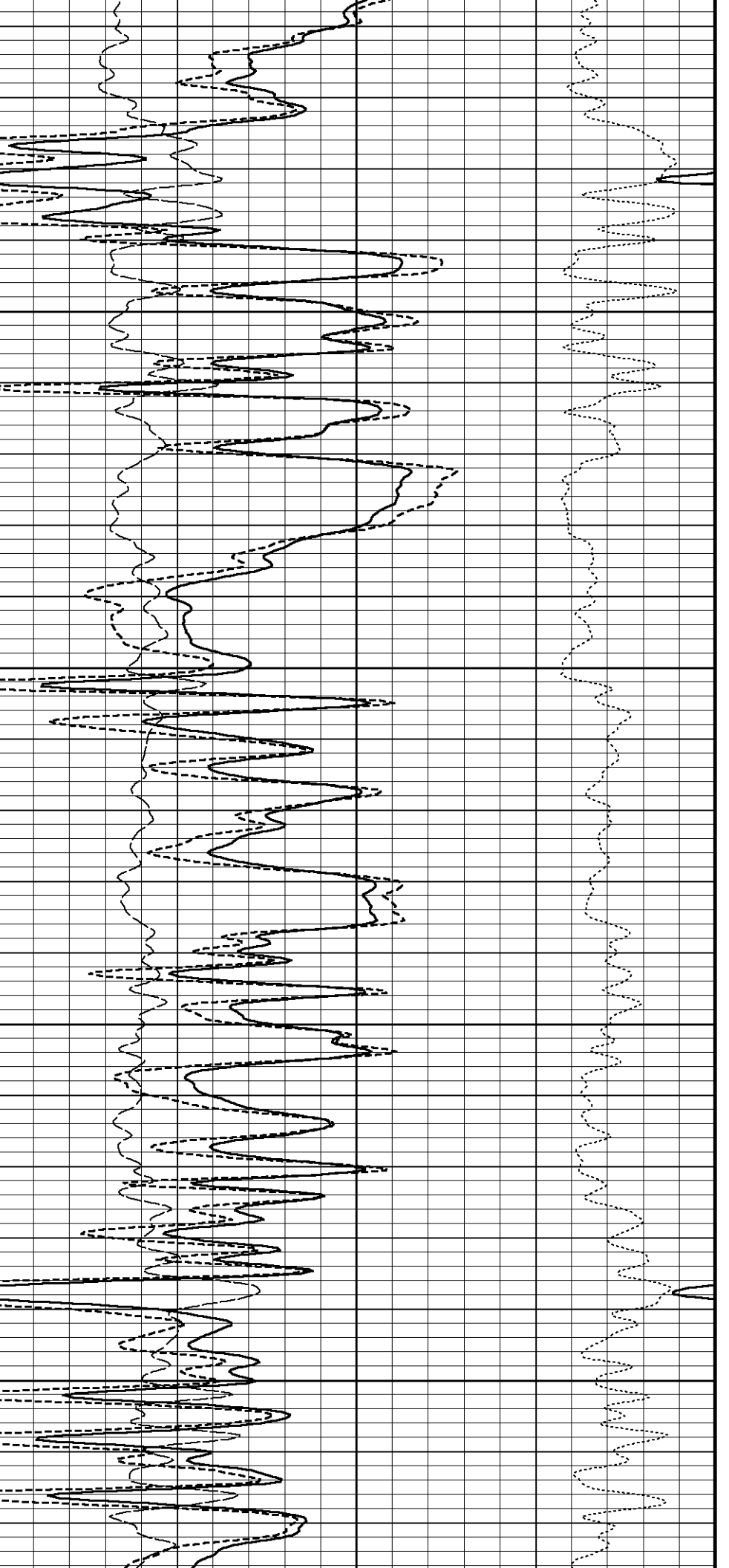
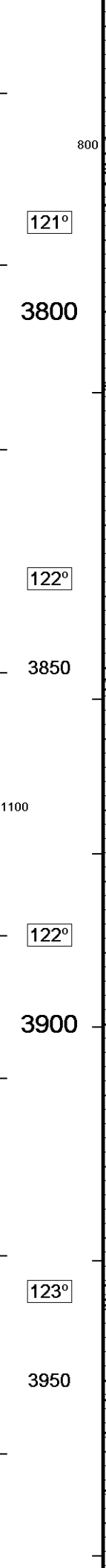
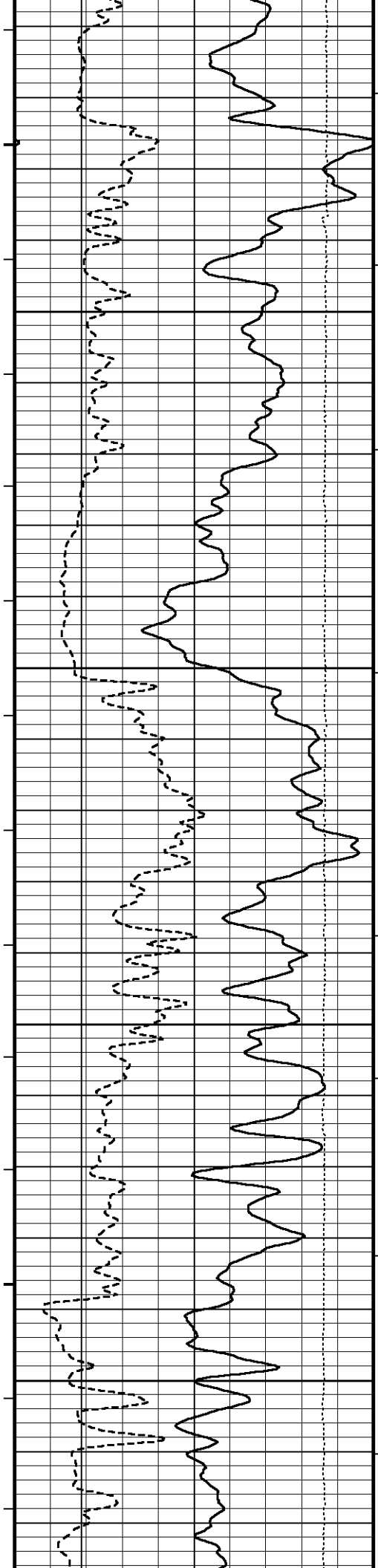


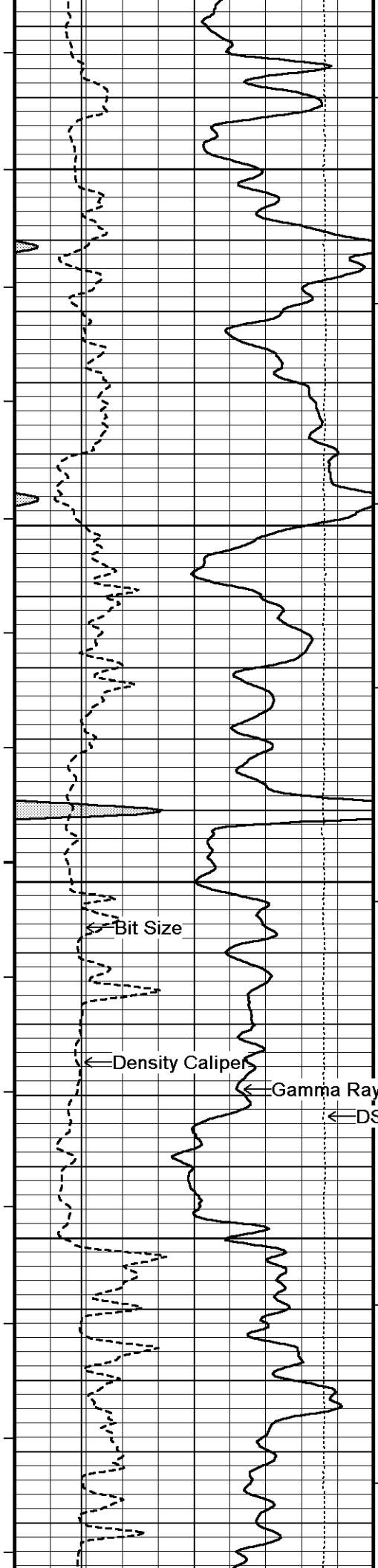


118°
3550
118°
3600
1200
119°
3650
120°
3700
3750



SS Density Por. →
PE →
Compensated Density →
Density Correction →
Gamma Ray
DST Up-hole Tension





124°

4000

124°

4050

125°

4100

Bit Size

Density Caliper

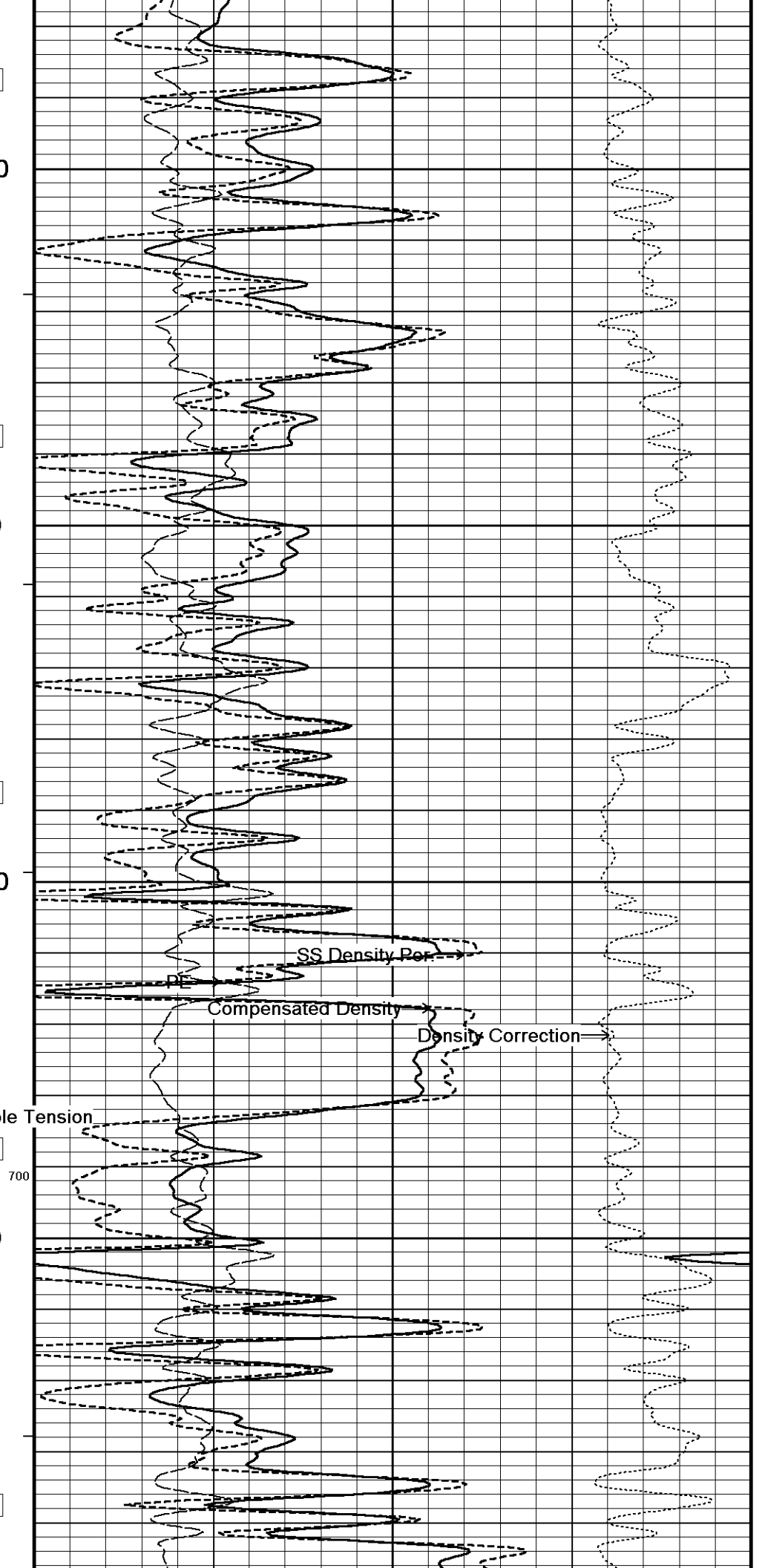
Gamma Ray

DST Uphole Tension

125°

4150

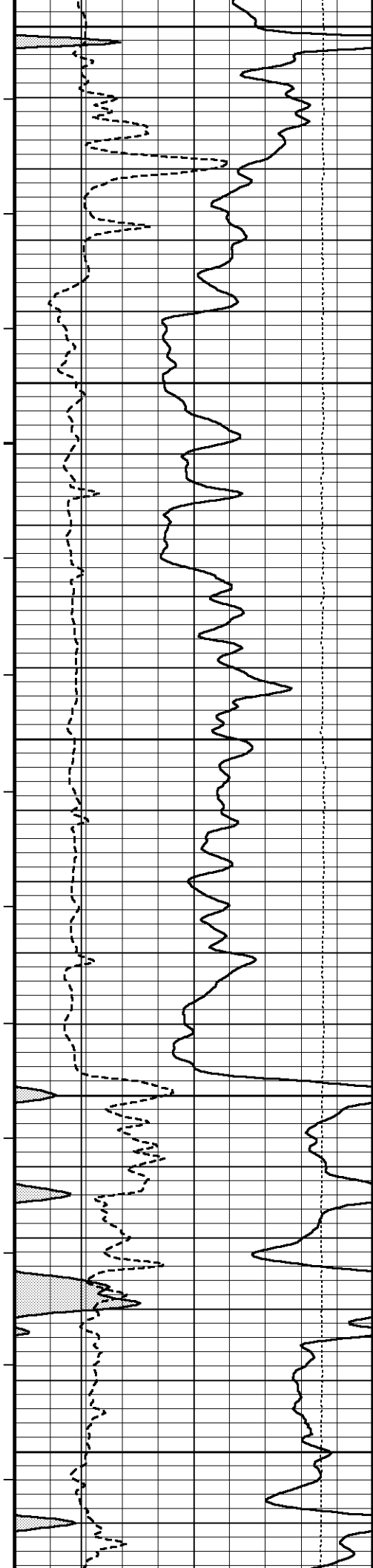
126°



SS Density Por

Compensated Density

Density Correction



4200

126°

4250

127°

4300

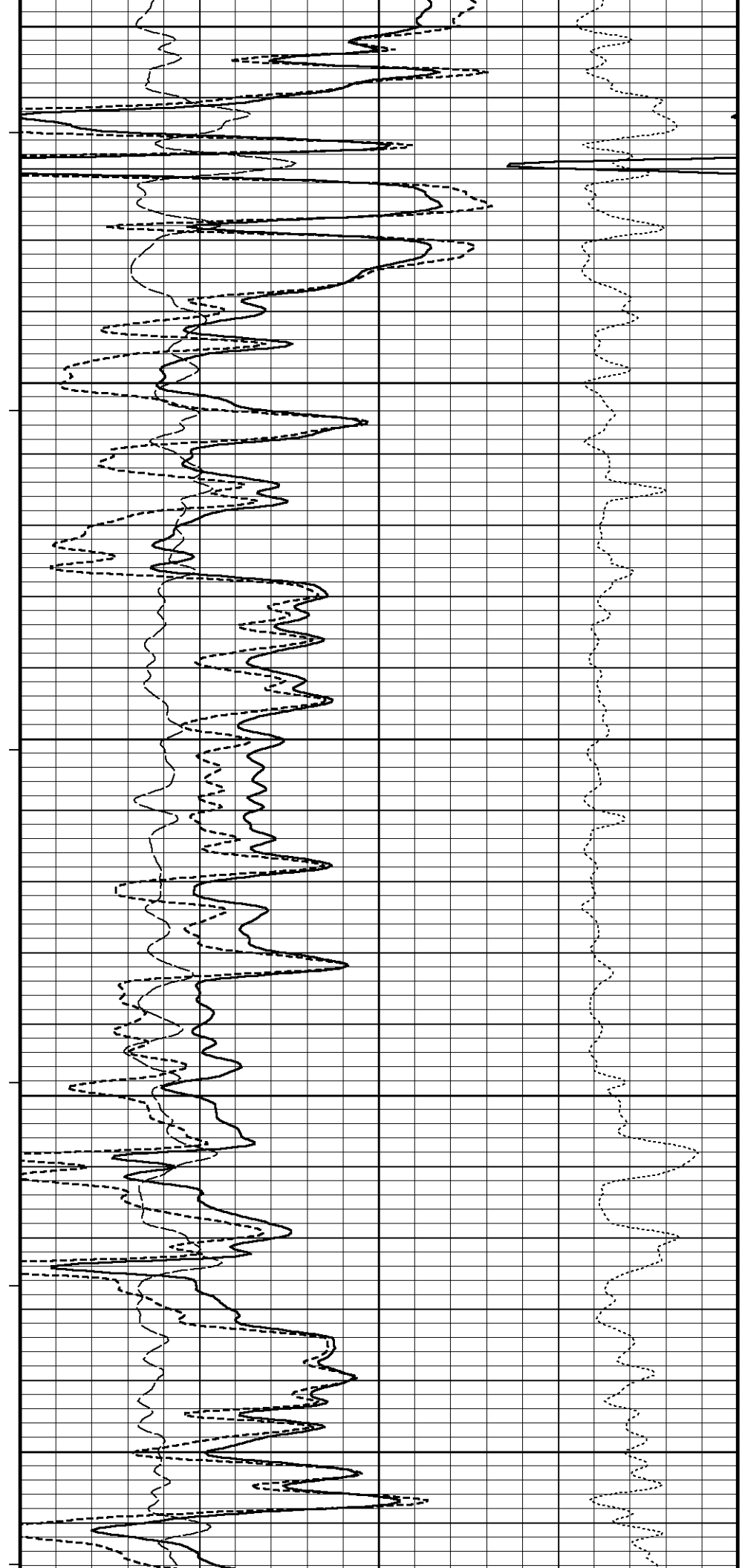
128°

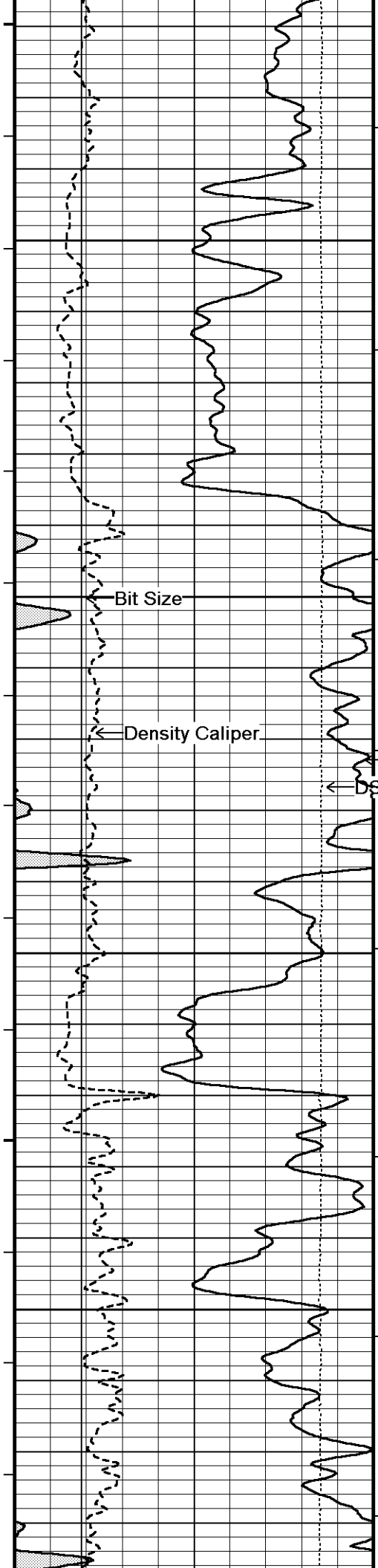
4350

129°

4400

900





129°

4450

130°

4500

130°

4550

131°

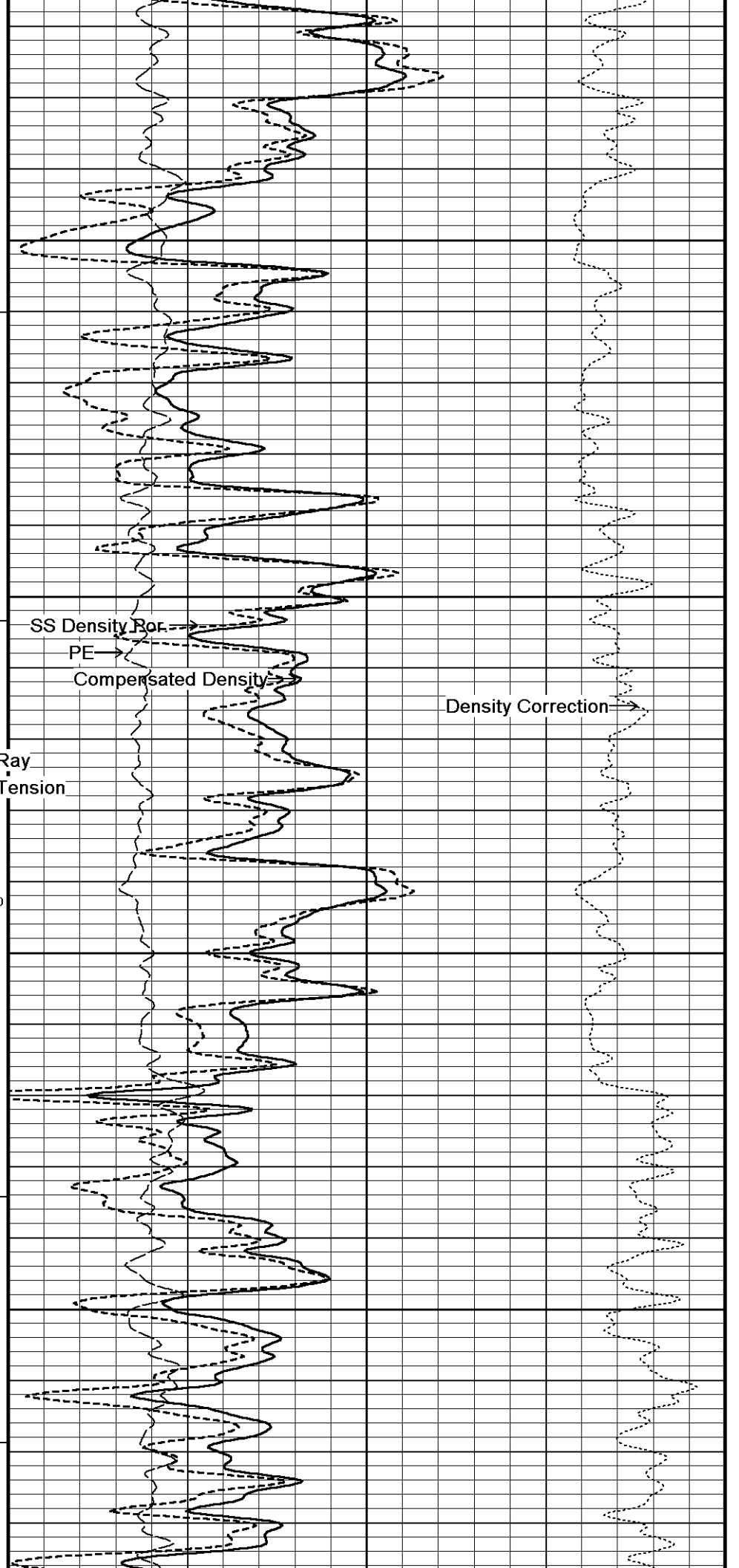
4600

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

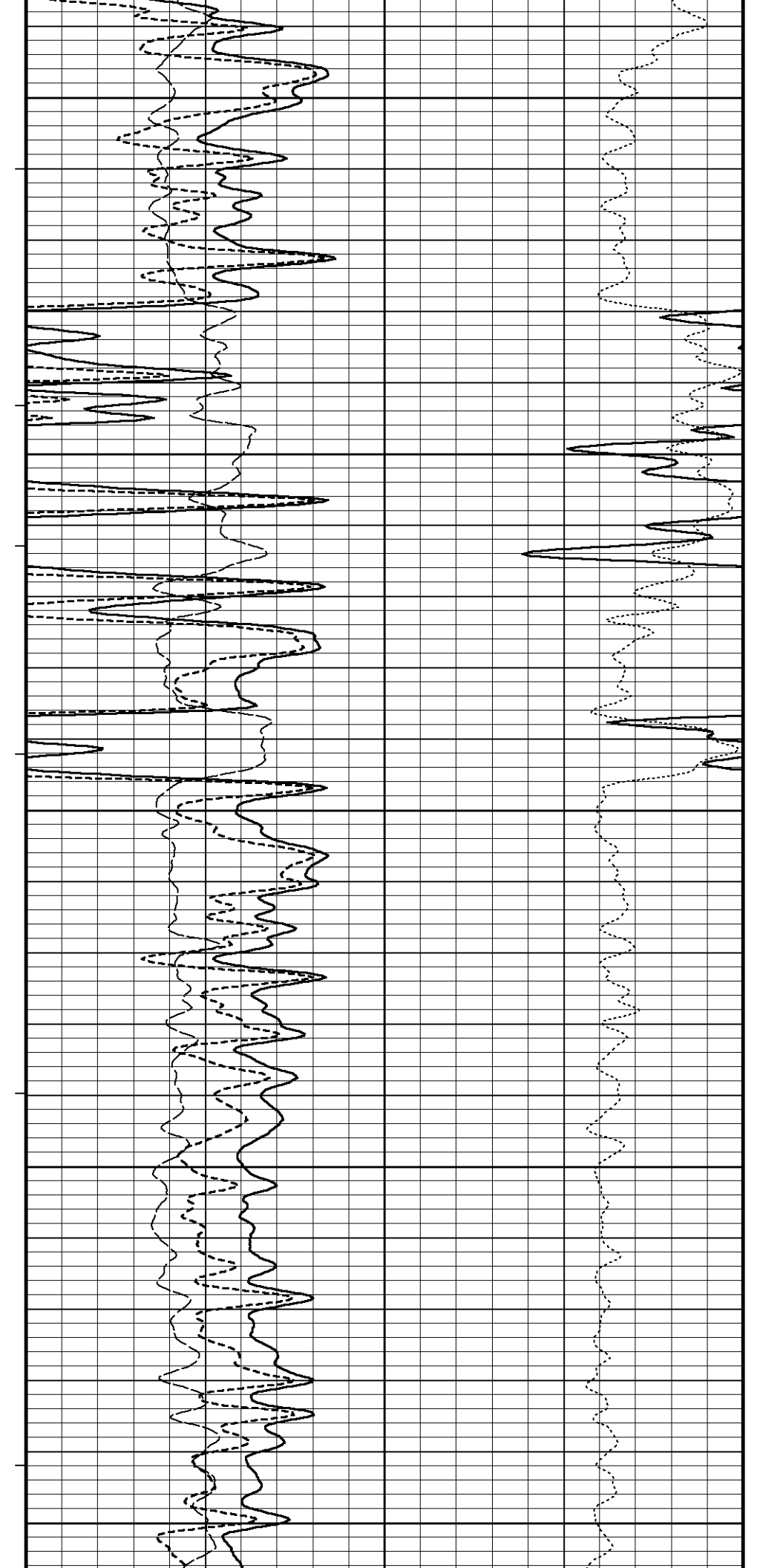
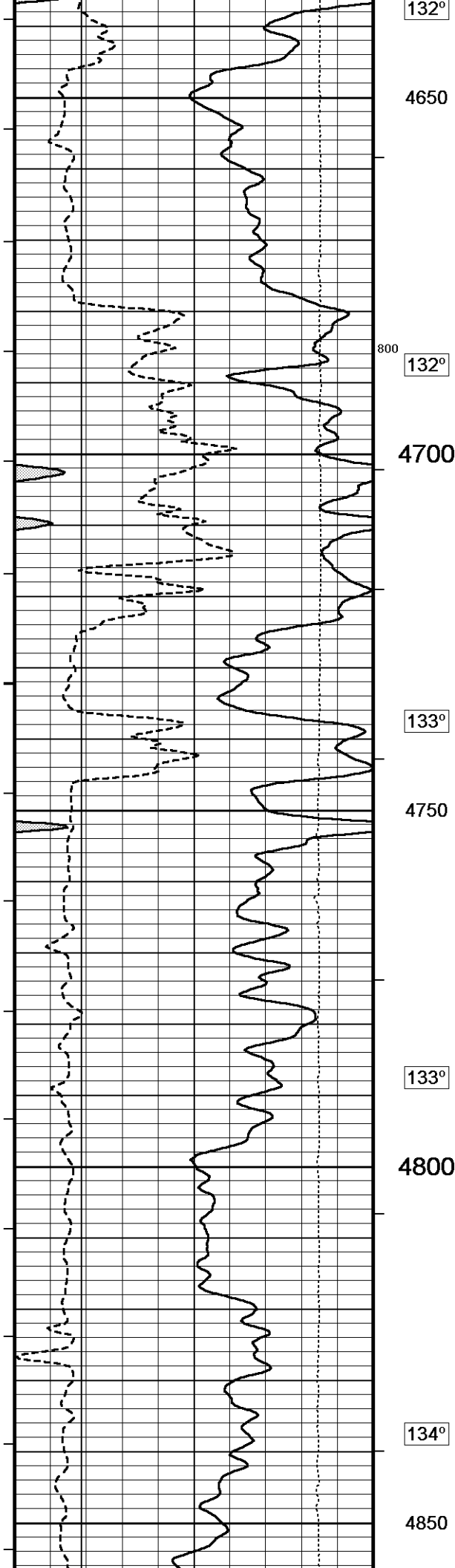


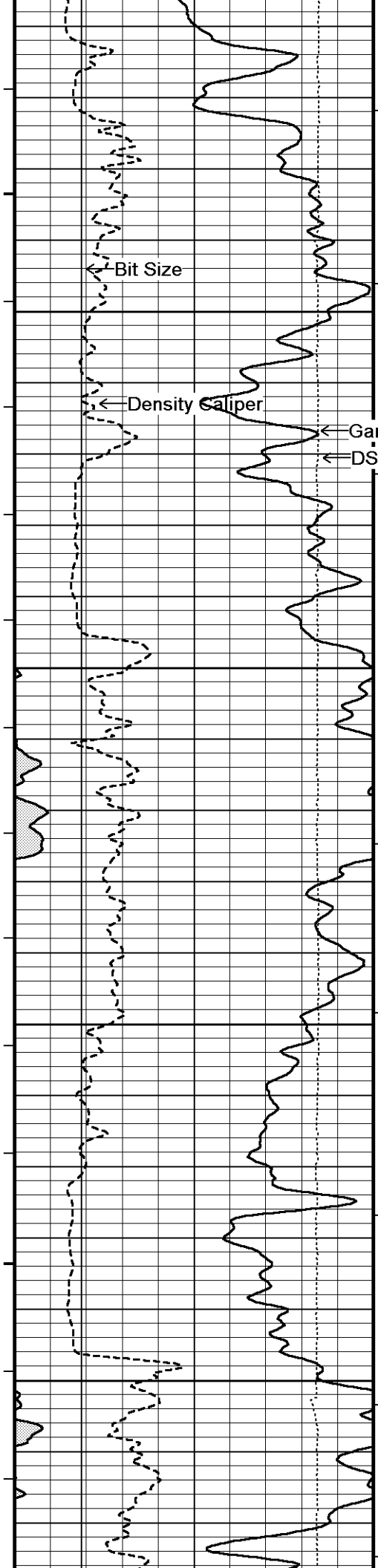
SS Density Por

PE

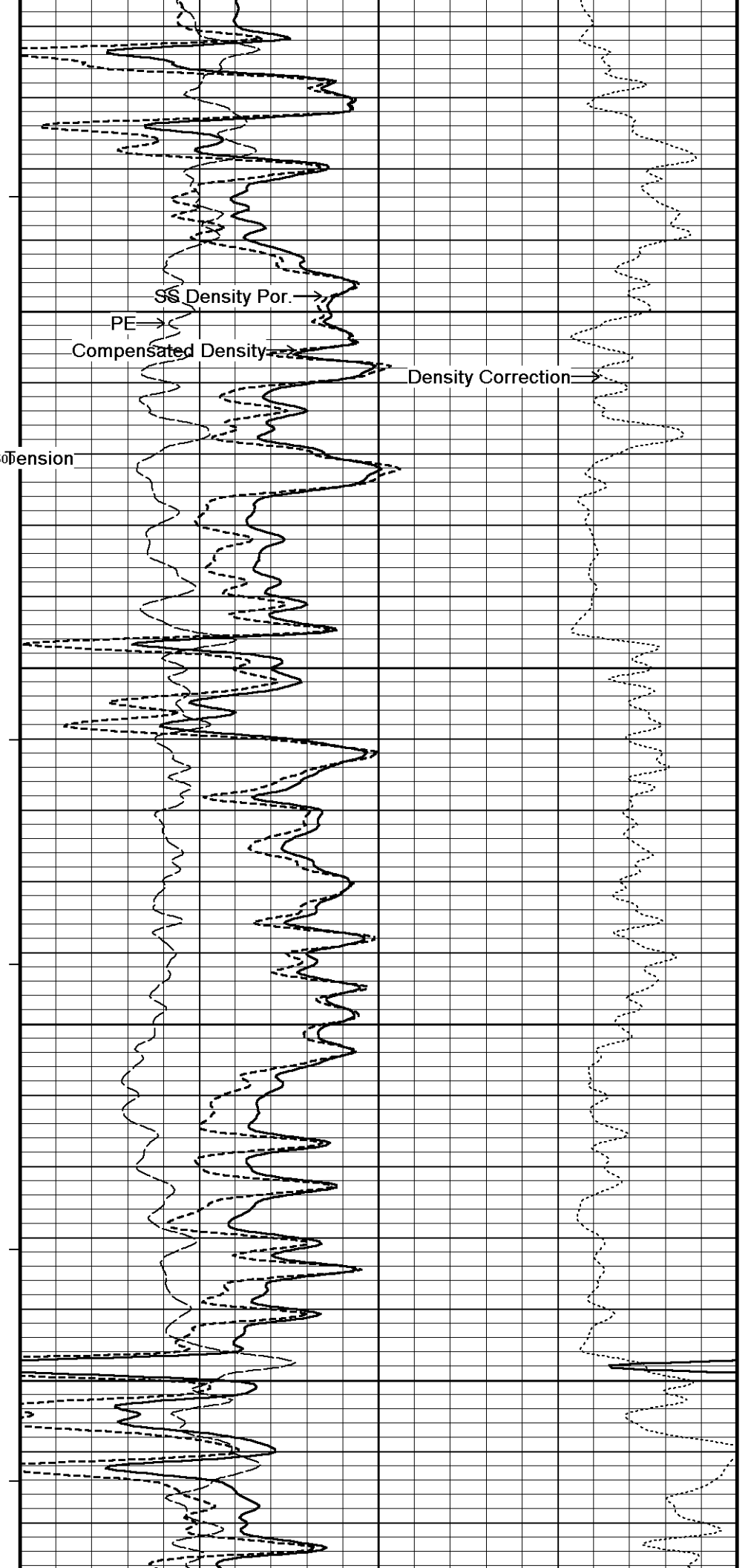
Compensated Density

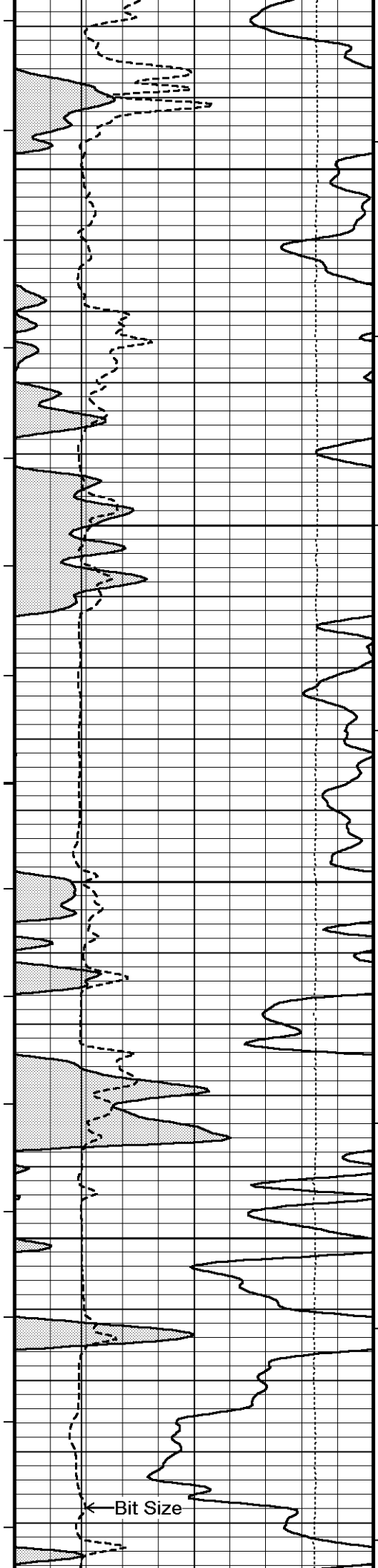
Density Correction



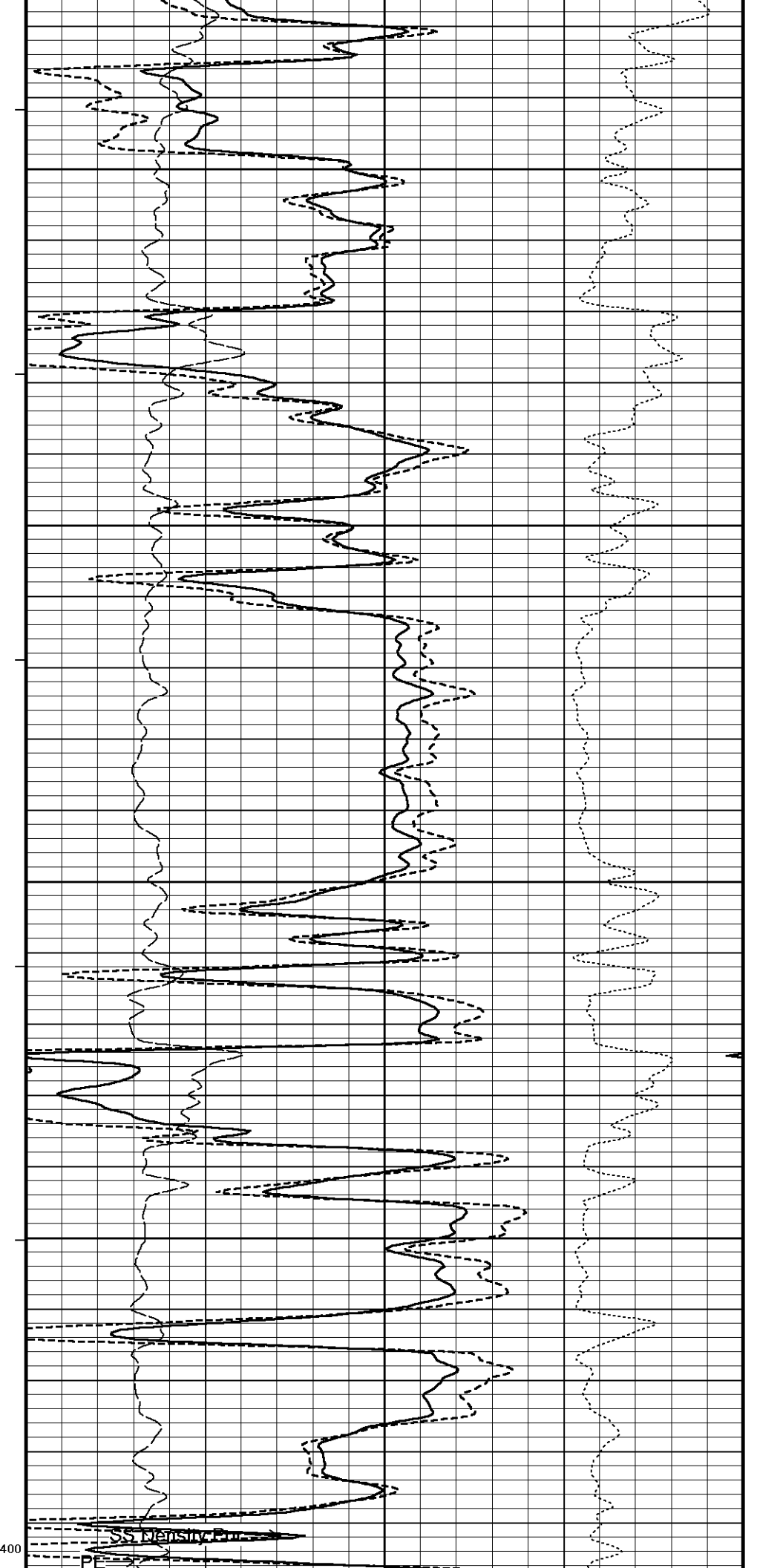


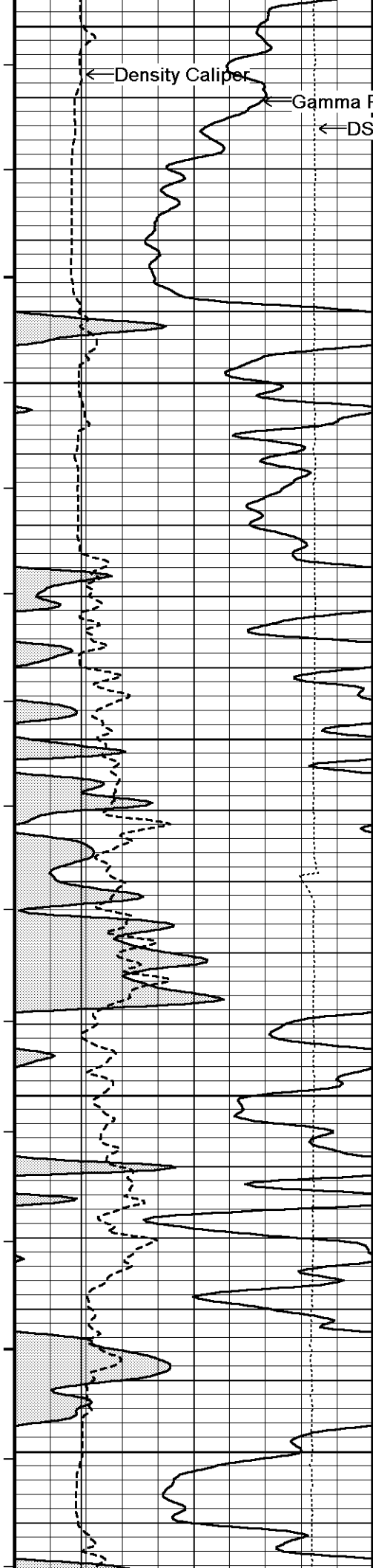
135°
4900
135°
4950
136°
5000
137°
5050





137°
5100
138°
5150
139°
5200
600
139°
5250
140°
400





5300

141°

5350

143°

5400

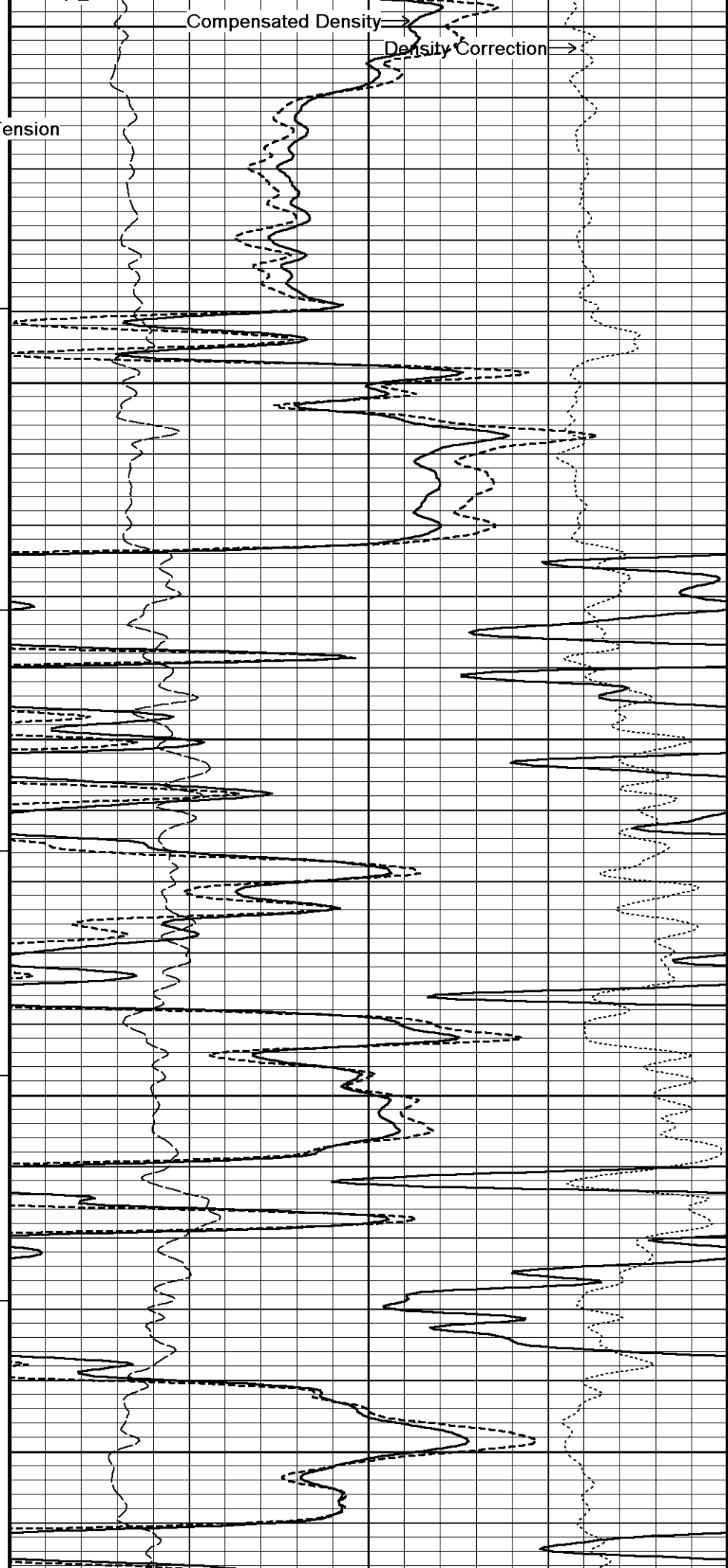
144°

5450

500

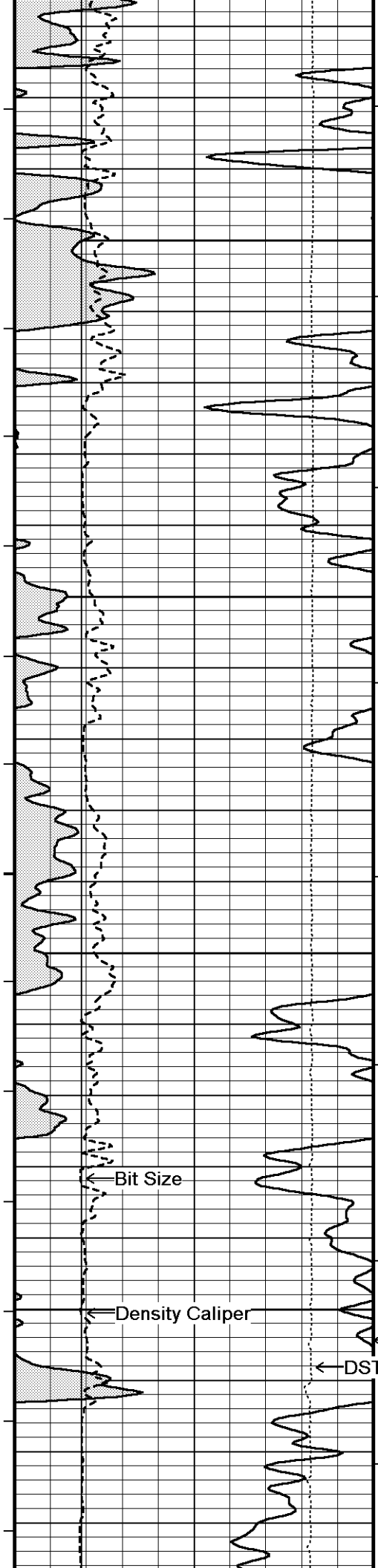
145°

5500



Compensated Density

Density Correction



146°

5550

147°

5600

148°

5650

149°

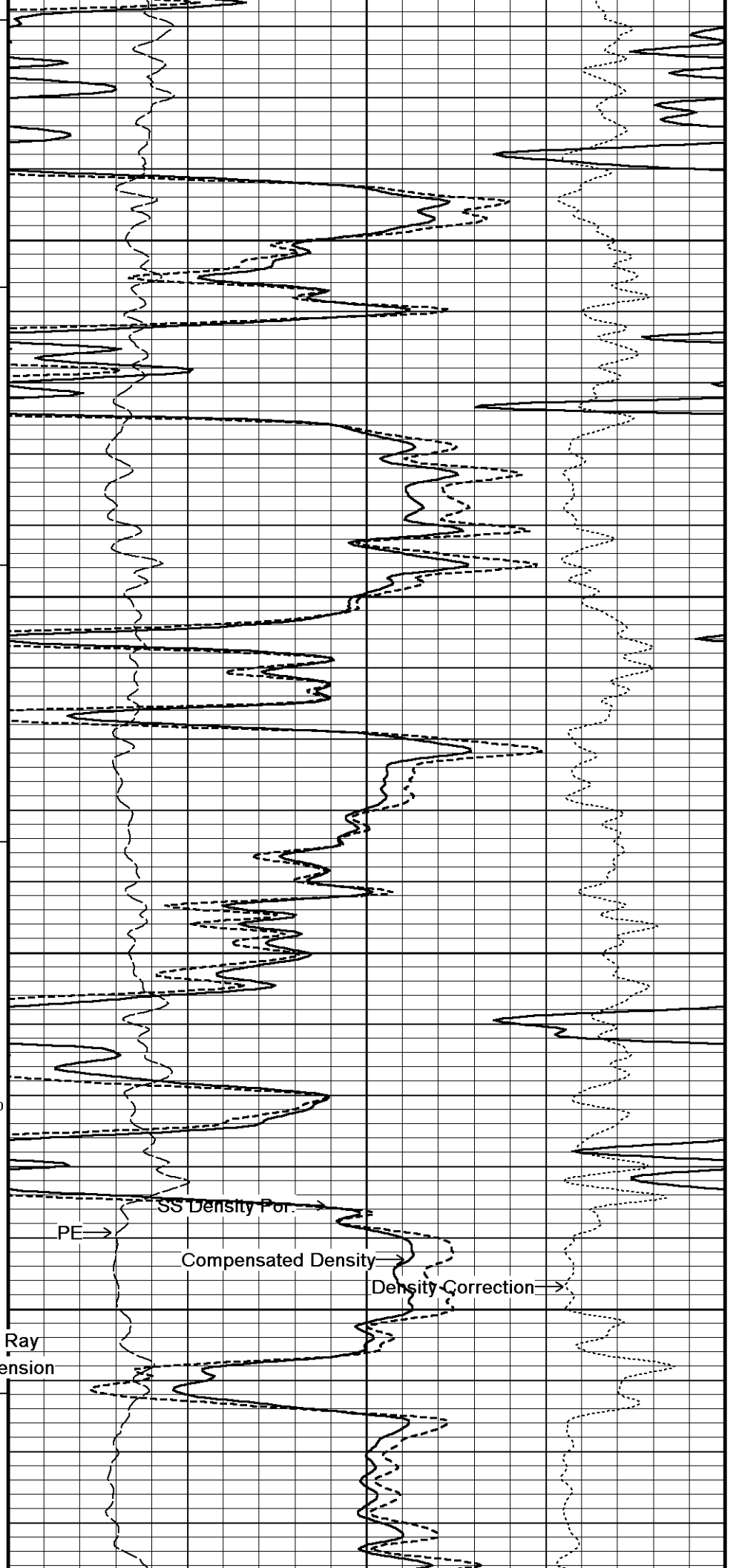
5700

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

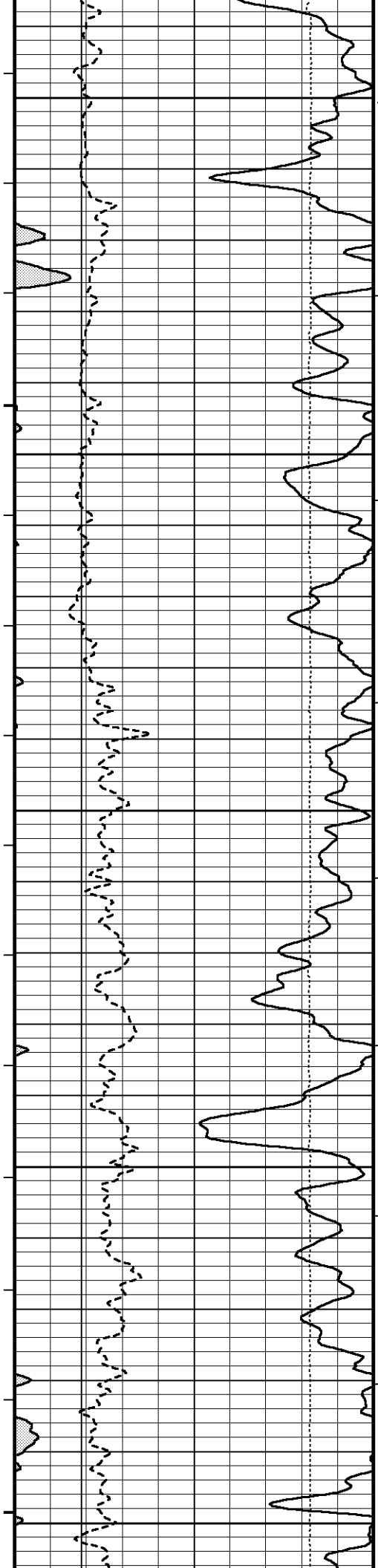


PE

SS Density Por.

Compensated Density

Density Correction



149°

400 5750

150°

5800

151°

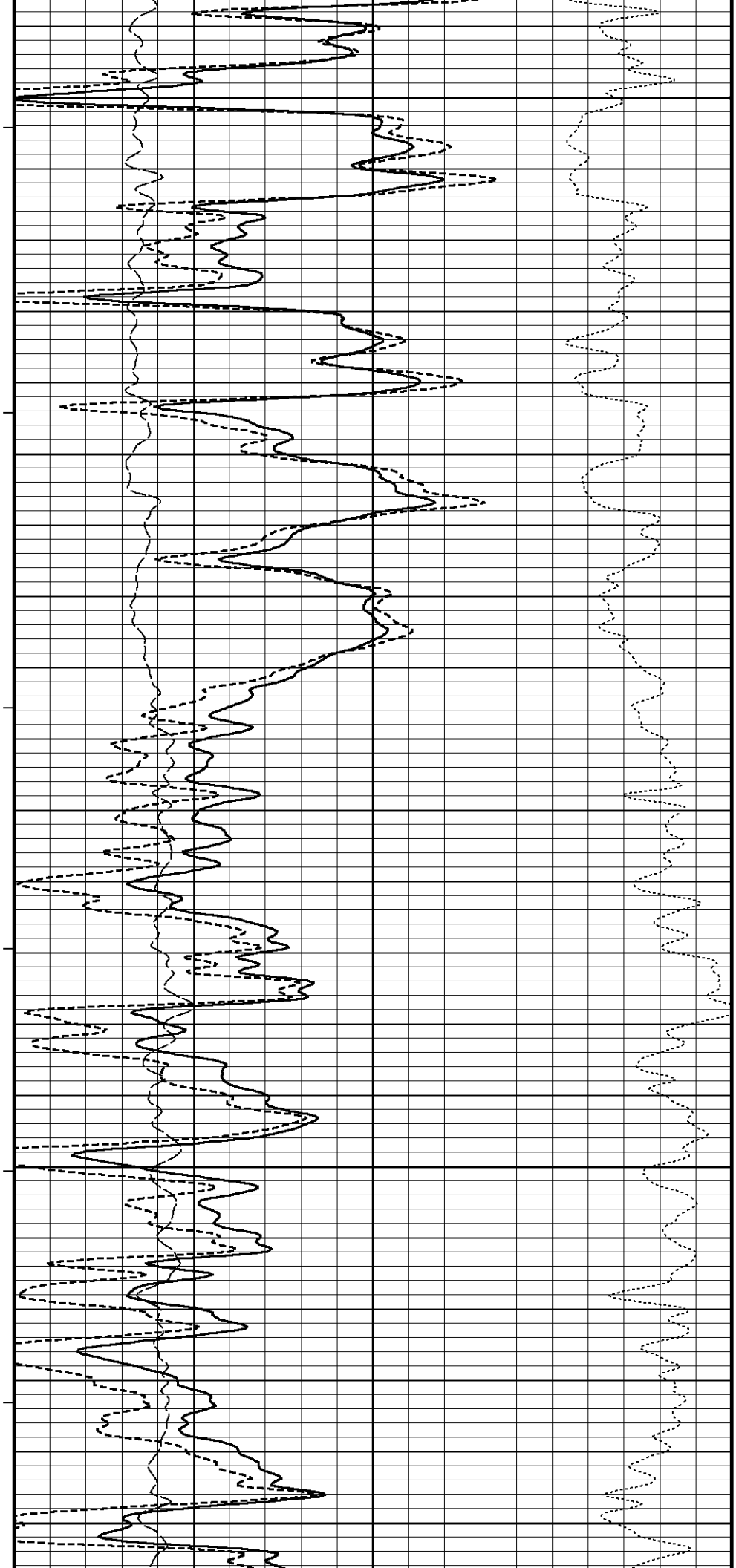
5850

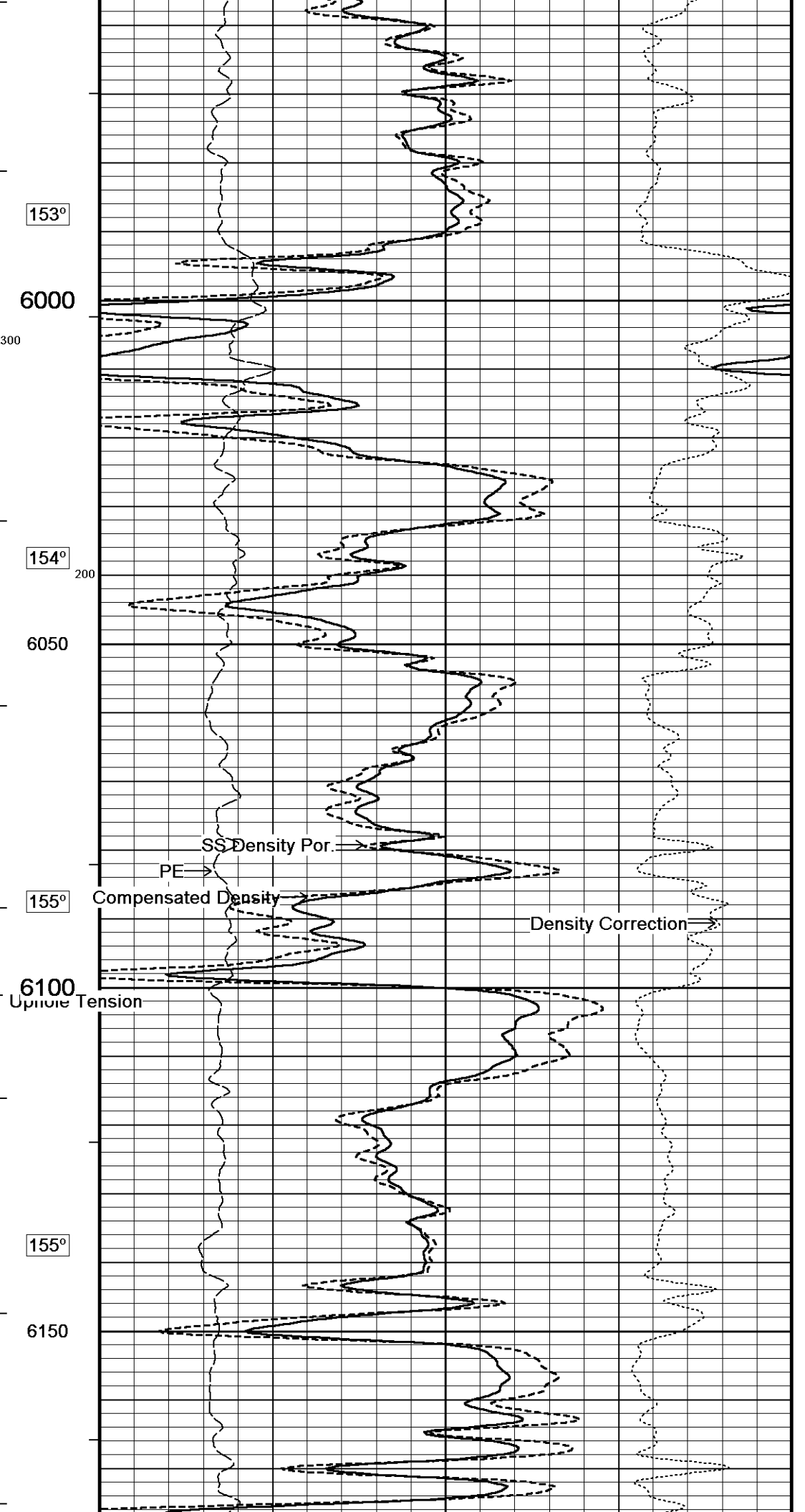
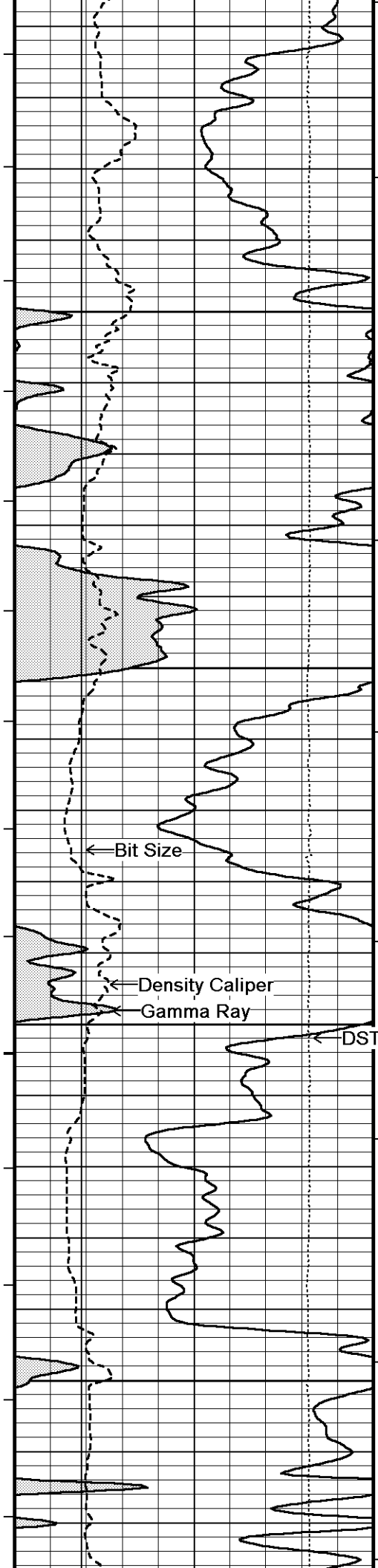
152°

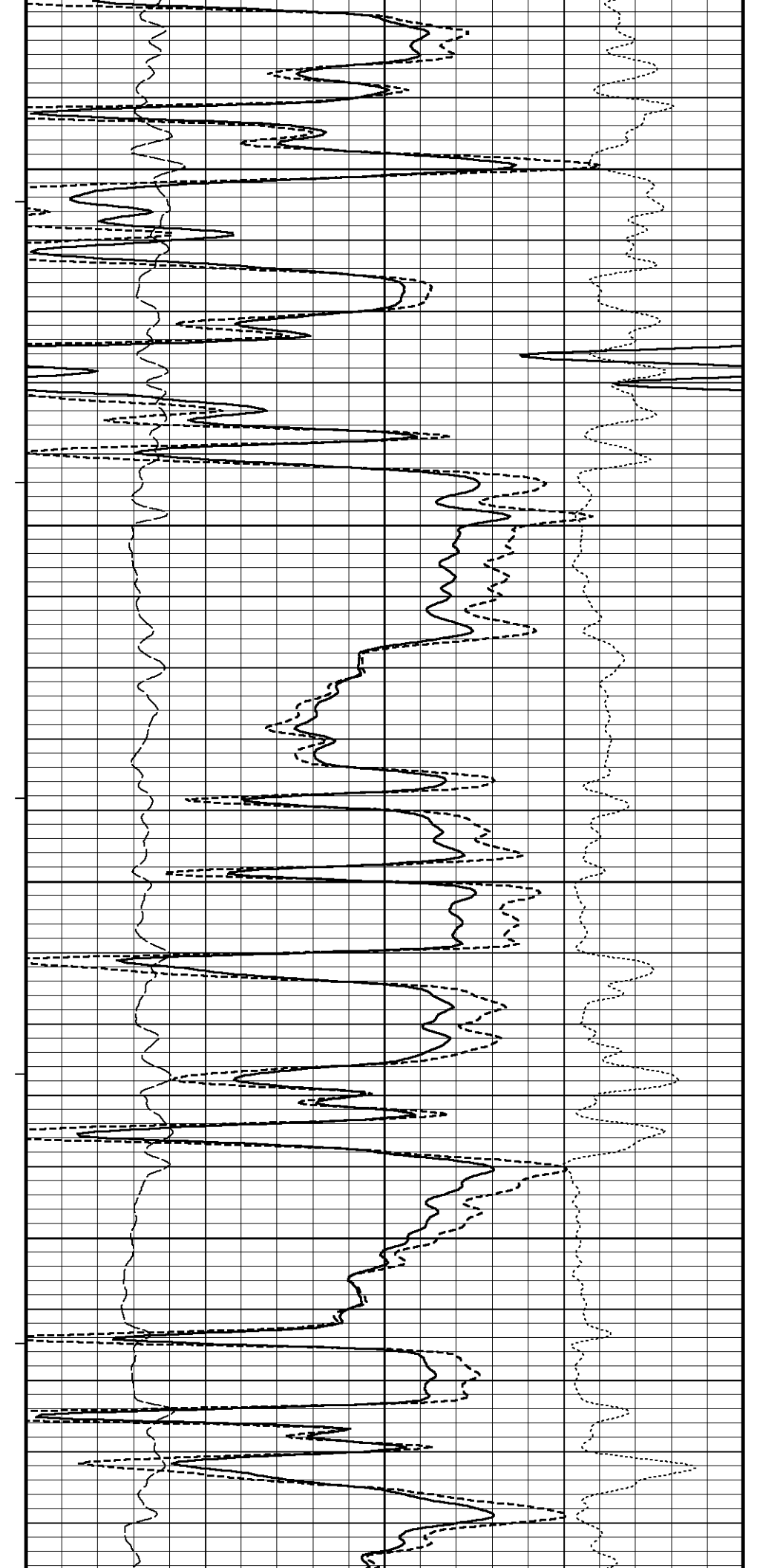
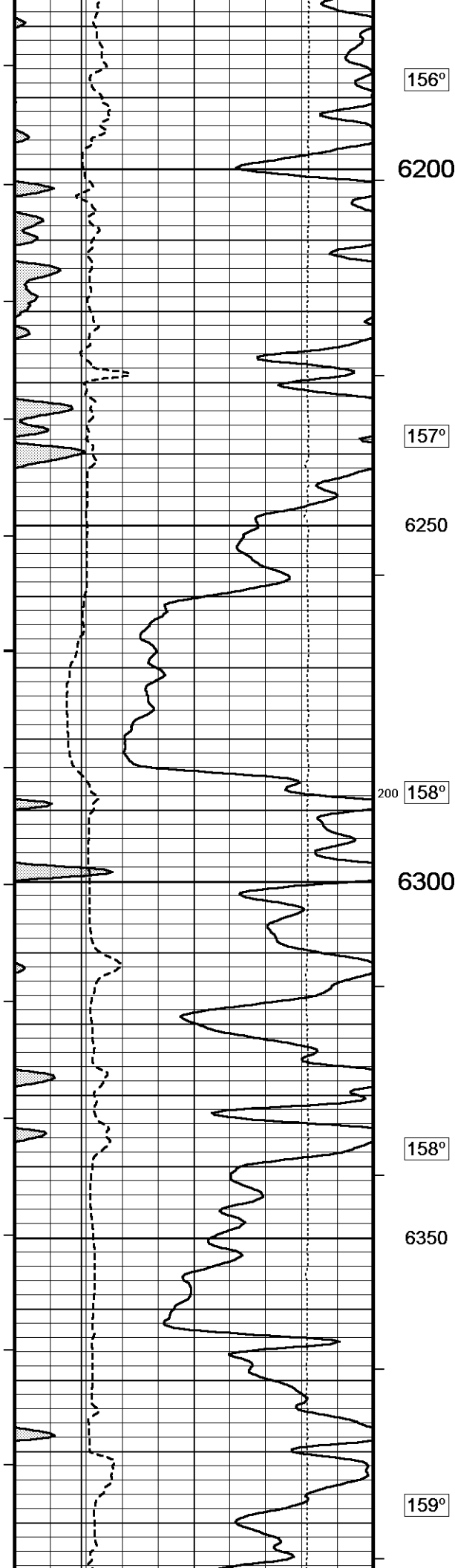
5900

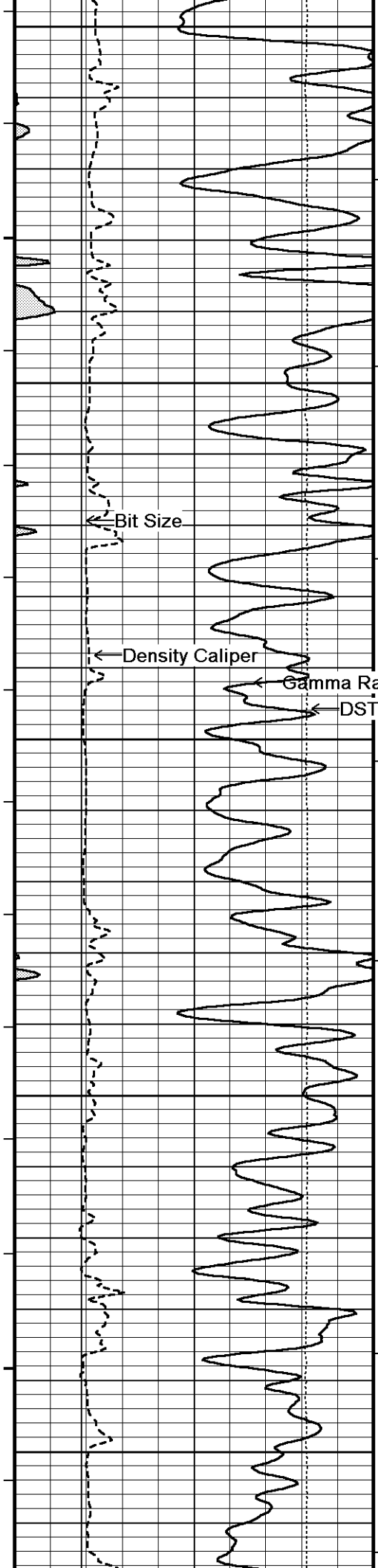
152°

5950









6400

160°

6450

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

161°

6500

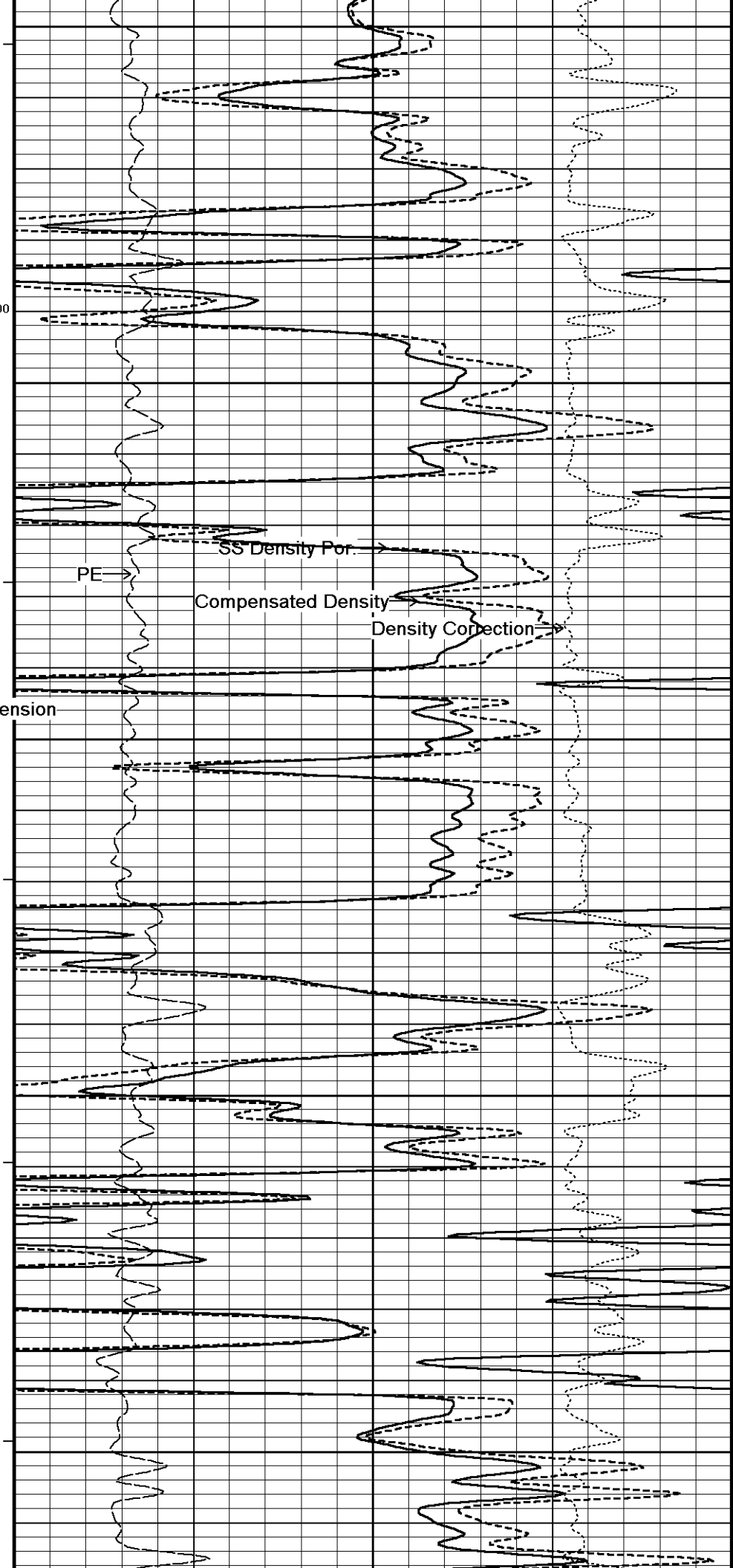
162°

6550

100

163°

6600

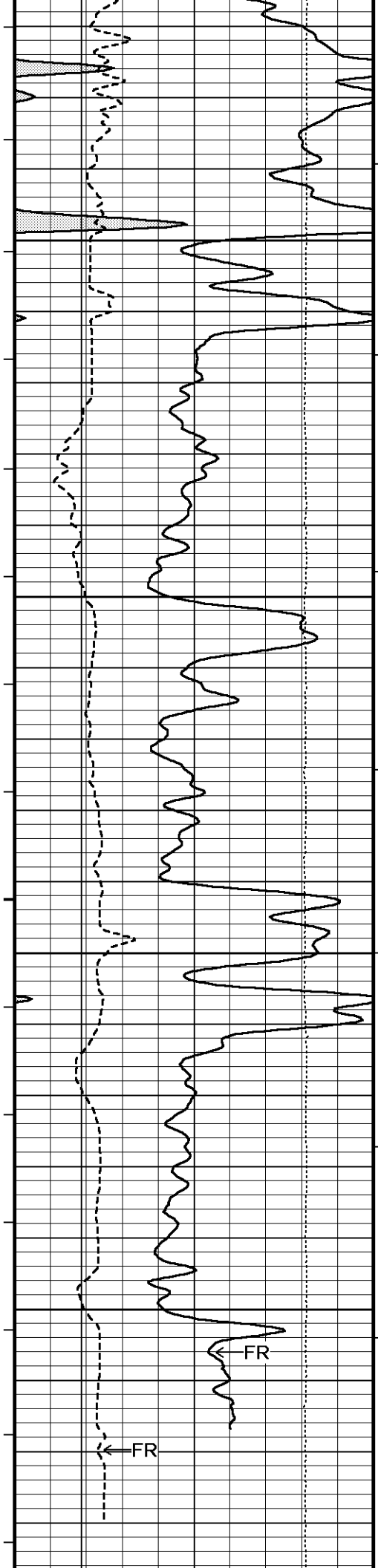


PE

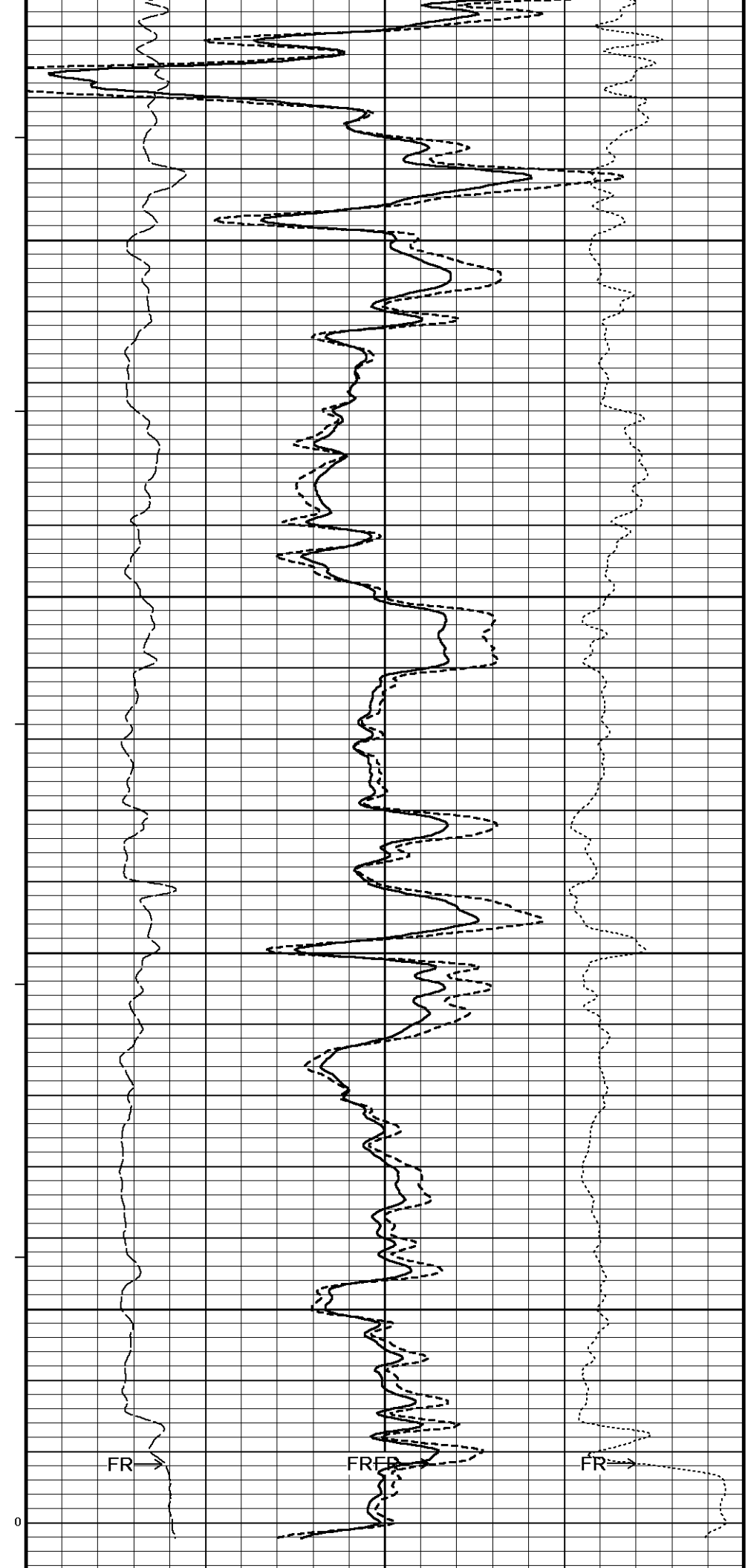
SS Density Por.

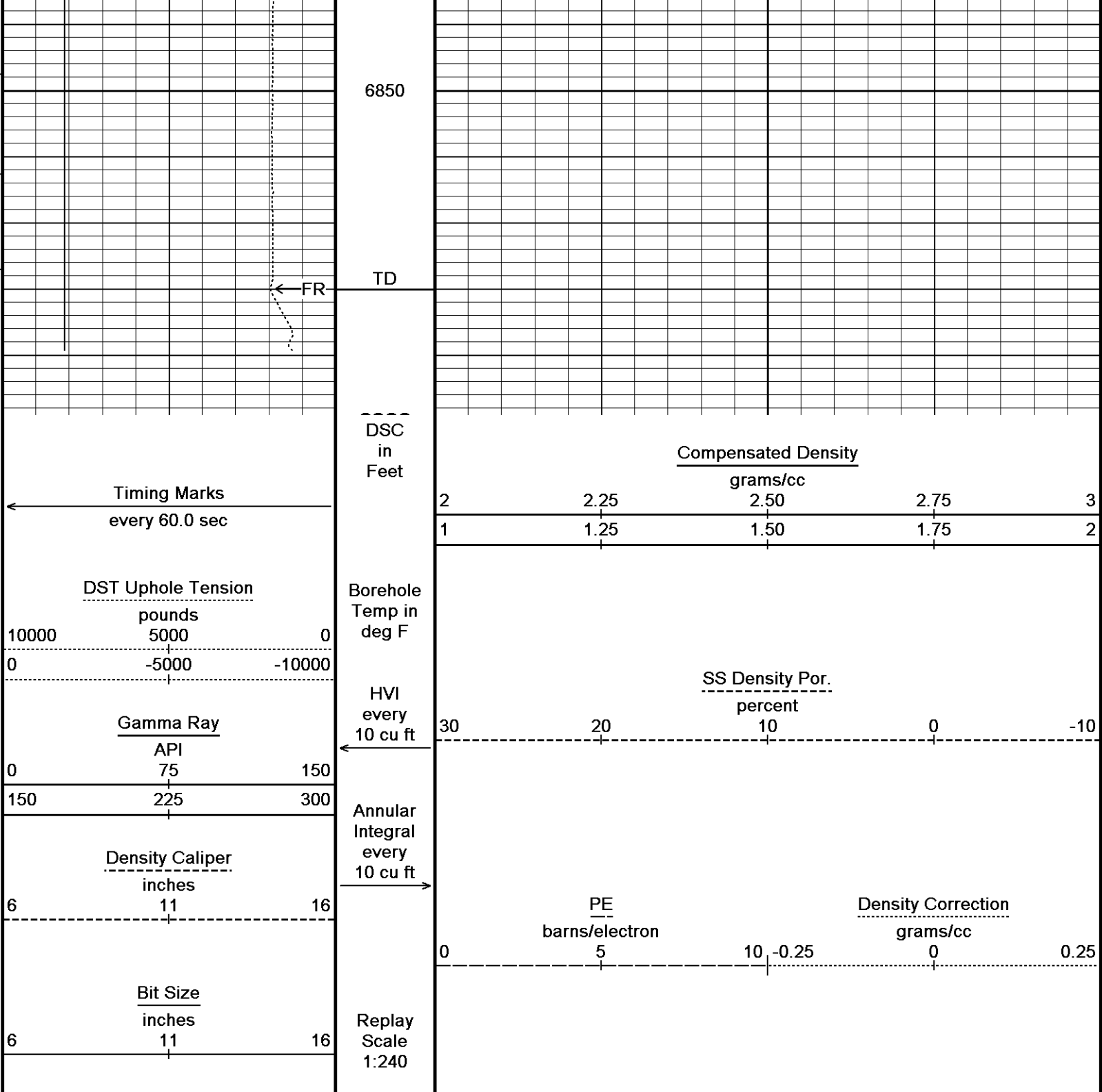
Compensated Density

Density Correction



164°
6650
165°
6700
165°
6750
165°
6800
0





Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 24-JAN-2012 15:40
Filename: C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreV...Wexpro Carl Allen 41_4.dta Recorded on 24-JAN-2012 07:46
System Versions: Logged with 12.02.4401 Plotted with 12.02.4401

↑ 5 INCH MAIN LOG ↑

BEFORE SURVEY CALIBRATION			
C:\DOCUME~1\sysadmin\LOCALS~1\Temp\Weatherford PreView\0\Wexpro Carl Allen 41_4.dta			
Down-hole Tension Calibration All 000		Field Calibration on 24-OCT-2010 03:34	
Reading No	Measured	Calibrated (lbs)	
1	15659.85	0.00	
2	15734.68	370.00	
General Constants All 000		Last Edited on 24-JAN-2012 05:35	

General Parameters		
Mud Resistivity	2.600	ohm-metres
Mud Resistivity Temperature	73.800	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	None	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0			Field Calibration on 24-JAN-2012 05:20
Reading No	Measured	Calibrated (lbs)	
1	17467.09	0.00	
2	18929.16	660.00	

Gamma Calibration MCG-D.K 424			Field Calibration on 23-JAN-2012 14:46
	Measured	Calibrated (API)	
Background	71	47	
Calibrator (Gross)	851	566	
Calibrator (Net)	780	519	

Gamma Constants MCG-D.K 424			Last Edited on 24-JAN-2012 04:33
Gamma Calibrator Number	GRCC 119		
Mud Density	1.00	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

High Resolution Temperature Calibration MCG-D.K 424			Field Calibration on 03-SEP-2011 14:47
	Measured	Calibrated(Deg F)	
Lower	10.00	10.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-D.K 424			Last Edited on 03-SEP-2011 14:35
Pre-filter Length	11		

SP Calibration MCG-D.K 424			Field Calibration on 16-OCT-2011 14:34
	Measured	Calibrated (mV)	
Reference 1	97.5	100.0	
Reference 2	-97.8	-100.0	

Neutron Calibration MDN-B.J 374			Base Calibration on 04-JAN-2012 18:16 Field Check on 23-JAN-2012 14:35
Base Calibration			
	Measured	Calibrated (cps)	
	Near Far	Near Far	
	2870 88	3714 110	
Ratio	32.435	33.764	
Field Calibrator at Base			
		Calibrated (cps)	
		2324 3462	
Ratio		0.671	
Field Check			
		Calibrated (cps)	
		2279 3426	
Ratio		0.665	

Neutron Constants MDN-B.J 374			Last Edited on 24-JAN-2012 05:02
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Neutron Source Id	P31115B	
Neutron Jig Number	NJ5529	
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	7.00	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	
Salinity Correction	Not Applied	

FE Calibration MFE-B.A 248

Base Calibration on 04-JAN-2012 13:45

Field Check on 23-JAN-2012 13:26

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	965.1	126.8
Base Check		281.3
Field Check		281.3

FE Constants MFE-B.A 248

Last Edited on 24-JAN-2012 06:36

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	1.0	inches

Induction Calibration MAI-B.J 362

Base Calibration on 02-SEP-2011 14:29

Field Check on 23-JAN-2012 13:20

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	16.0	468.7	9.3	966.2
2	6.2	374.5	7.6	821.4
3	3.6	258.3	5.2	566.0
4	1.8	133.1	2.6	279.2

Array Temperature	74.8	Deg F
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Channel	Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High
1	0.0	0.0	15.0	3873.2
2	0.0	0.0	30.5	3605.3
3	0.0	0.0	28.4	3069.1
4	0.0	0.0	19.7	2079.0
Deep	0.0	0.0	17.5	1954.3
Medium	0.0	0.0	41.1	4076.8
Shallow	0.0	0.0	45.5	5399.6

Array Temperature	0.0	16.1	Deg F
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Induction Constants MAI-B.J 362

Last Edited on 24-JAN-2012 06:36

Induction Model	RtAP-WBM	
Caliper for Borehole Corr.	Density Caliper	
Hole Size for Borehole Correction	N/A	inches
Tool Centred	Yes	
Stand-off Type	N/A	
Stand-off	N/A	inches

Stand-off		N/A	metres
Number of Fins on Stand-off		N/A	
Stand-off Fin Angle		N/A	degrees
Stand-off Fin Width		N/A	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-B.J 362			
	Measured	Calibrated(Deg F)	Field Calibration on 28-SEP-2011 08:20
Lower	10.00	50.00	
Upper	100.00	212.00	
High Resolution Temperature Constants MAI-B.J 362			
Pre-filter Length	11		Last Edited on
Caliper Calibration MPD-B 183			
			Base Calibration on 06-JAN-2012 18:24
			Field Calibration on 23-JAN-2012 13:42
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	18208	3.99	
2	28048	5.96	
3	38240	7.99	
4	47744	9.86	
5	58880	11.93	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	7.93	7.96	
Photo Density Calibration MPD-B 183			
			Base Calibration on 06-JAN-2012 18:08
			Field Check on 23-JAN-2012 13:39
Density Calibration			
Base Calibration			
	Measured	Calibrated (sdu)	
	Near	Far	Near
Reference 1	39679	13053	52994
Reference 2	18069	1723	25185
Field Check at Base			
	651.0	764.9	
Field Check			
	650.6	762.5	
RF Calibration			

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	118	586		
Reference 1	13846	39582	0.352	0.309
Reference 2	5300	17996	0.298	0.274
Field Check at Base				
	118.4	585.6		
Field Check				
	121.1	590.2		

Density Constants MPD-B 183

Last Edited on 24-JAN-2012 05:02

Density Source Id	P15771B	
Nylon Calibrator Number	527	
Aluminium Calibrator Number	527	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.23	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)	
2.68	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	

Dipole Constants and Gains MRD-A.A 126

Logging Mode	Standard	
Semblance Parameters		
Window Start	1.00	milliseconds
Window Width	15	milliseconds

Discriminator Levels

M1C Discriminator	0.1	mV
M2C Discriminator	0.1	mV
M3C Discriminator	0.1	mV
M4C Discriminator	0.1	mV

Monopole Receiver Gains

MR1A	1.000000	MR1B	1.000000	MR1C	1.000000	MR1D	1.000000
MR2A	1.000000	MR2B	1.000000	MR2C	1.000000	MR2D	1.000000
MR3A	1.000000	MR3B	1.000000	MR3C	1.000000	MR3D	1.000000
MR4A	1.000000	MR4B	1.000000	MR4C	1.000000	MR4D	1.000000
MR5A	1.000000	MR5B	1.000000	MR5C	1.000000	MR5D	1.000000
MR6A	1.000000	MR6B	1.000000	MR6C	1.000000	MR6D	1.000000
MR7A	1.000000	MR7B	1.000000	MR7C	1.000000	MR7D	1.000000
MR8A	1.000000	MR8B	1.000000	MR8C	1.000000	MR8D	1.000000

DOWNHOLE EQUIPMENT

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SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 225 L.G: 2.30 ft. WT: 22.0 lb. OD: 2.24 in.



Compact Comms Gamma
MCG-D.K 424 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron
MDN-B.J 374 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-B 183 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 437 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 89 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-B Compact Inline Standoff sub
MIS-B 200 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 112 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Dipole Memory
MDM-A.A 126 LG: 4.48 ft WT: 39.7 lb OD: 2.24 in

Compact Dipole Receiver
MRD-A.A 126 LG: 8.89 ft WT: 88.2 lb OD: 2.24 in

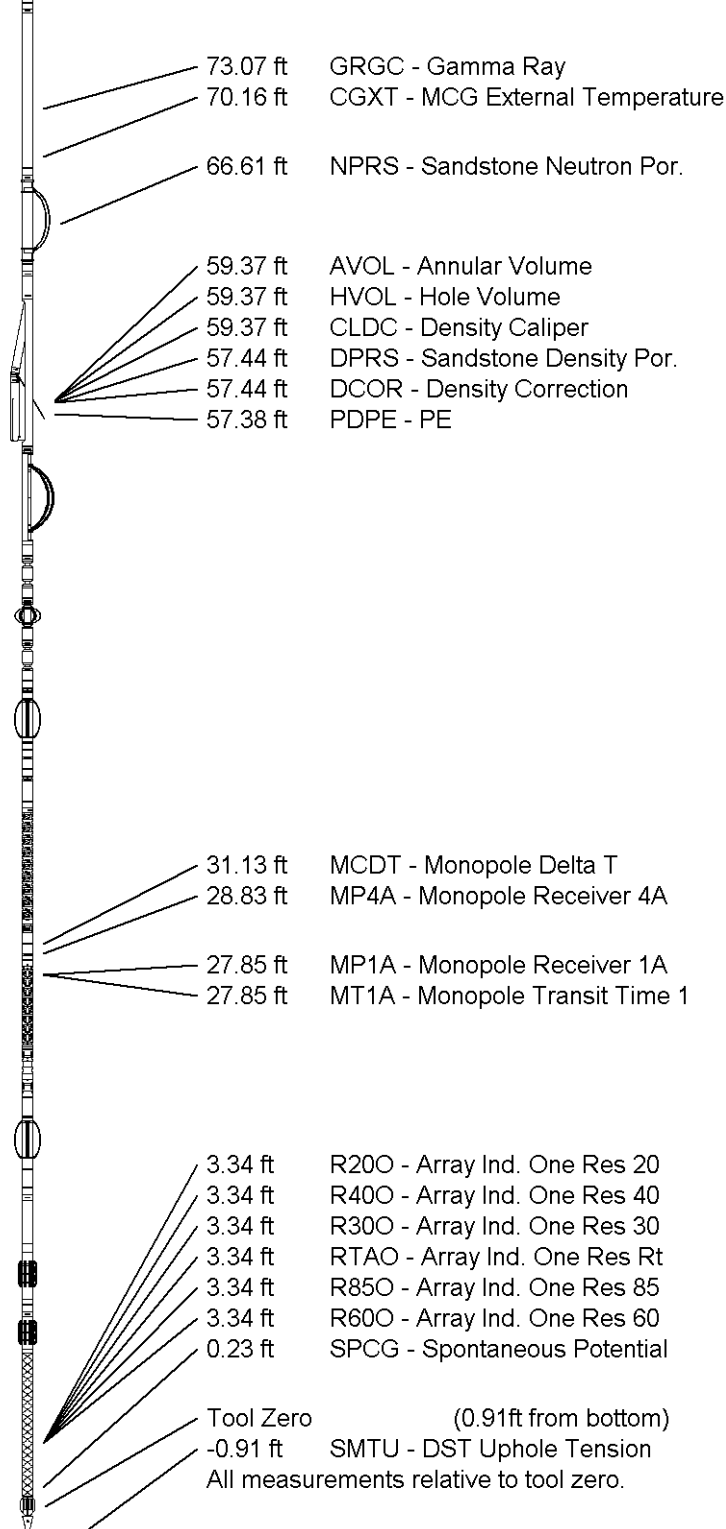
Compact Dipole Transmitter
MTD-A.A 126 LG: 12.63 ft WT: 110.2 lb OD: 2.24 in

Compact Focussed Electric
MFE-B.A 248 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.J 362 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Compact Hole Finder
HFS 1 LG: 0.78 ft WT: 2.2 lb OD: 2.24 in

Total Length: 81.43 ft Weight: 661.4 lb



COMPANY	WEXPRO COMPANY
WELL	CARL ALLEN 41
FIELD	POWDER WASH
PROVINCE/COUNTY	MOFFAT
COUNTRY/STATE	USA/COLORADO

Elevation Kelly Bushing	6689.00	feet	First Reading	6823.00	feet
Elevation Drill Floor	6689.00	feet	Depth Driller	9520.00	feet
Elevation Ground Level	6660.00	feet	Depth Logger	6880.00	feet



COMPENSATED PHOTO DENSITY
COMPENSATED DUAL NEUTRON



