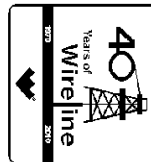


**Weatherford**[®]**HOLE VOLUME
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**
WELL **KAUFMAN 23C-24-692**
FIELD **MAMM CREEK**
PROVINCE/COUNTY **GARFIELD**
COUNTRY/STATE **U.S.A. / COLORADO**
LOCATION **SHL: 1768' FSL & 2457' FEL**
BHL: 2121' FSL & 1970' FWL



SEC 24 TWP 6S RGE 92W
API Number 05-045-19649
Permit Number
Other Services
MPD/MDN
MAI/MFE

Permanent Datum G.L., Elevation 5844 feet
Log Measured From KB
Drilling Measured From K.B. @ 22 FT.

Elevations:
KB 5866.00
DF 5866.00
GL 5844.00

Date	01-AUG-2011	
Run Number	ONE	
Depth Driller	7633.00	feet
Depth Logger	7641.00	feet
First Reading	7618.00	
Last Reading	858.00	
Casing Driller	860.00	feet
Casing Logger	858.00	feet
Bit Size	7.875	inches
Hole Fluid Type	LSND	
Density / Viscosity	10.30 lb/USg	50.00 CP
PH / Fluid Loss	9.80	6.20 ml/30Min
Sample Source	FLOW LINE	
Rm @ Measured Temp	2.80 @ 88.0	ohm-m
Rmf @ Measured Temp	2.24 @ 88.0	ohm-m
Rmc @ Measured Temp	3.36 @ 88.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	1.30 @193.0	ohm-m
Time Since Circulation	7 HOURS	
Max Recorded Temp	193.00	deg F
Equipment Name	COMPACT	
Equipment / Base	13045	GD JCT
Recorded By	O. GOYZUETA	
Witnessed By	C. CROWTON	

BOREHOLE RECORD

Last Edited: 02-AUG-2011 05:03

Bit Size inches	Depth From feet	Depth To feet
8.750	858.00	4448.00
7.880	4448.00	7641.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	858.00	36.00

REMARKS

LOGGING SOFTWARE USED: 11.03.4044

TOOLS: SHA, MCG, MDN, MPD, SKJ, MFE AND MAI RAN IN COMBINATION.

HARDWARE: MPD: 8 INCH PROFILE PLATE USED.
TWO 0.5 INCH STANDOFFS USED ON INDUCTION.
DUAL BOWSPRING USED ON NEUTRON.

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TIGHT PULLS, BOREHOLE SIZE, AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 8.92" (9 5/8", 36 LB/FT CASING).

8.75 INCH BIT CHANGE AT 4448 FT.

LOG SPLICED AT 7464 FEET.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2720 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1970 CU.FT.

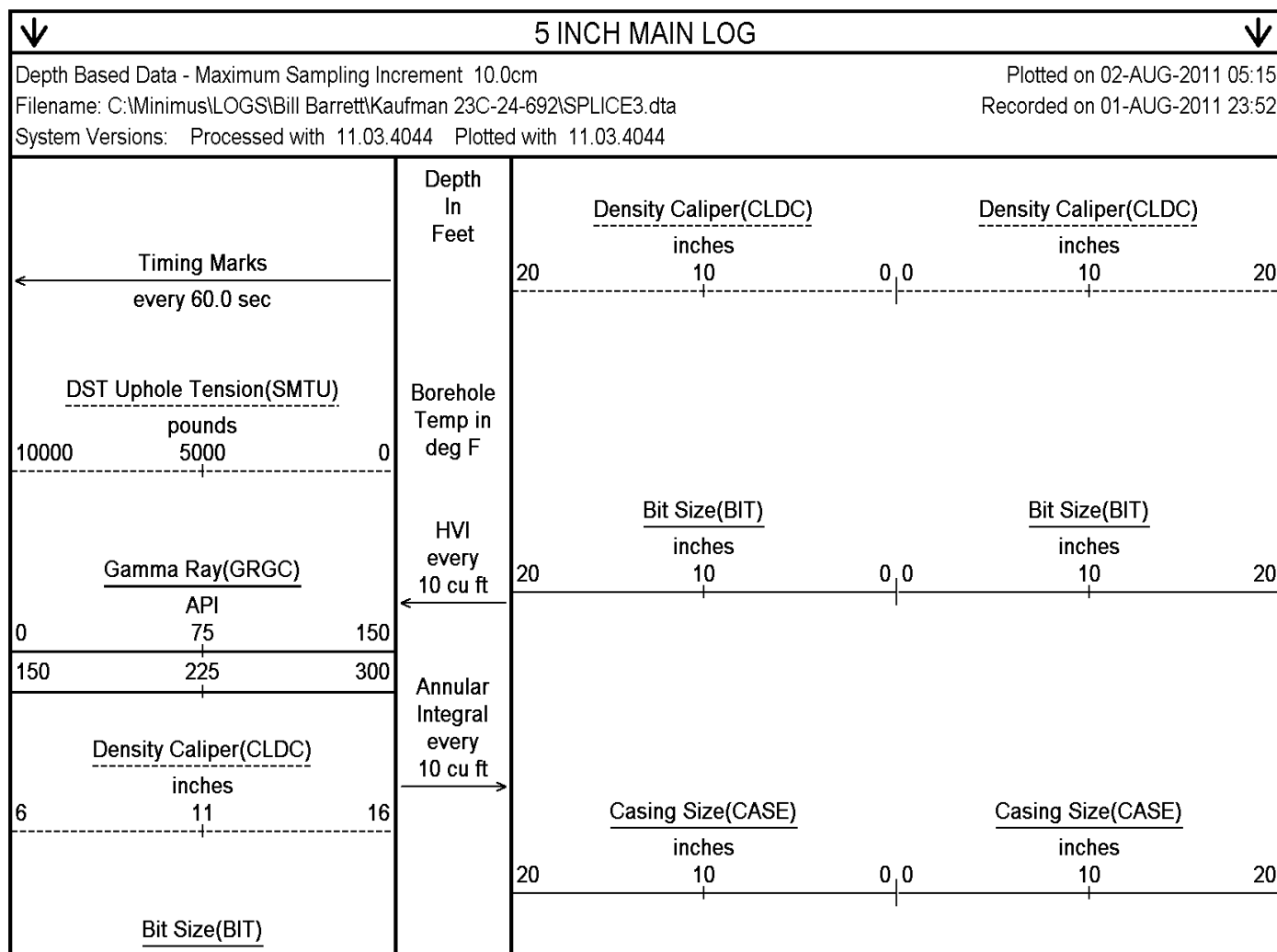
ENGINEER(S): O. GOYZUETA

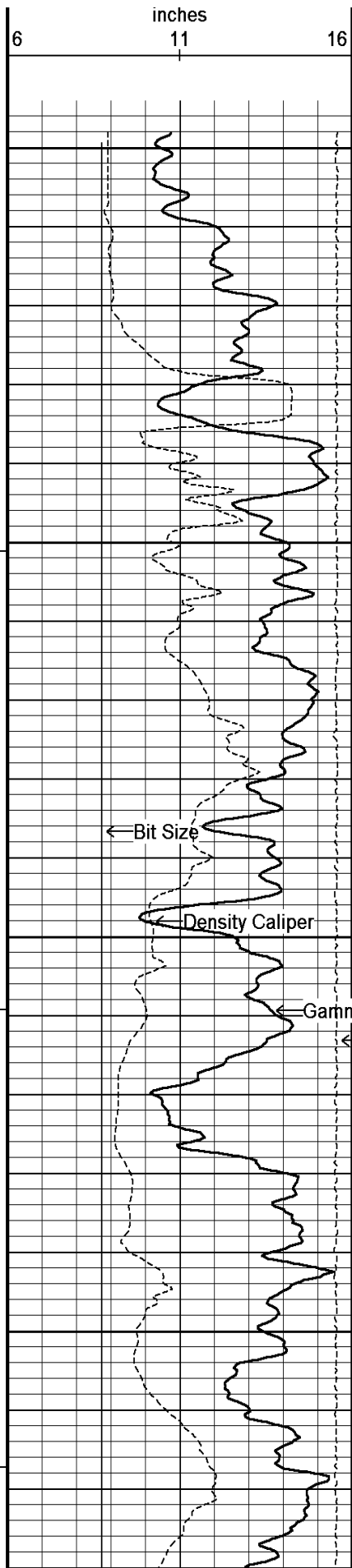
OPERATOR(S): J. YOAKUM, B. FRISBEE

SERVICE ORDER: # 3531745

RIG: PATTERSON #307

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.





Replay
Scale
1:240

850
Casing
Shoe

2700

108°

900

108°

950

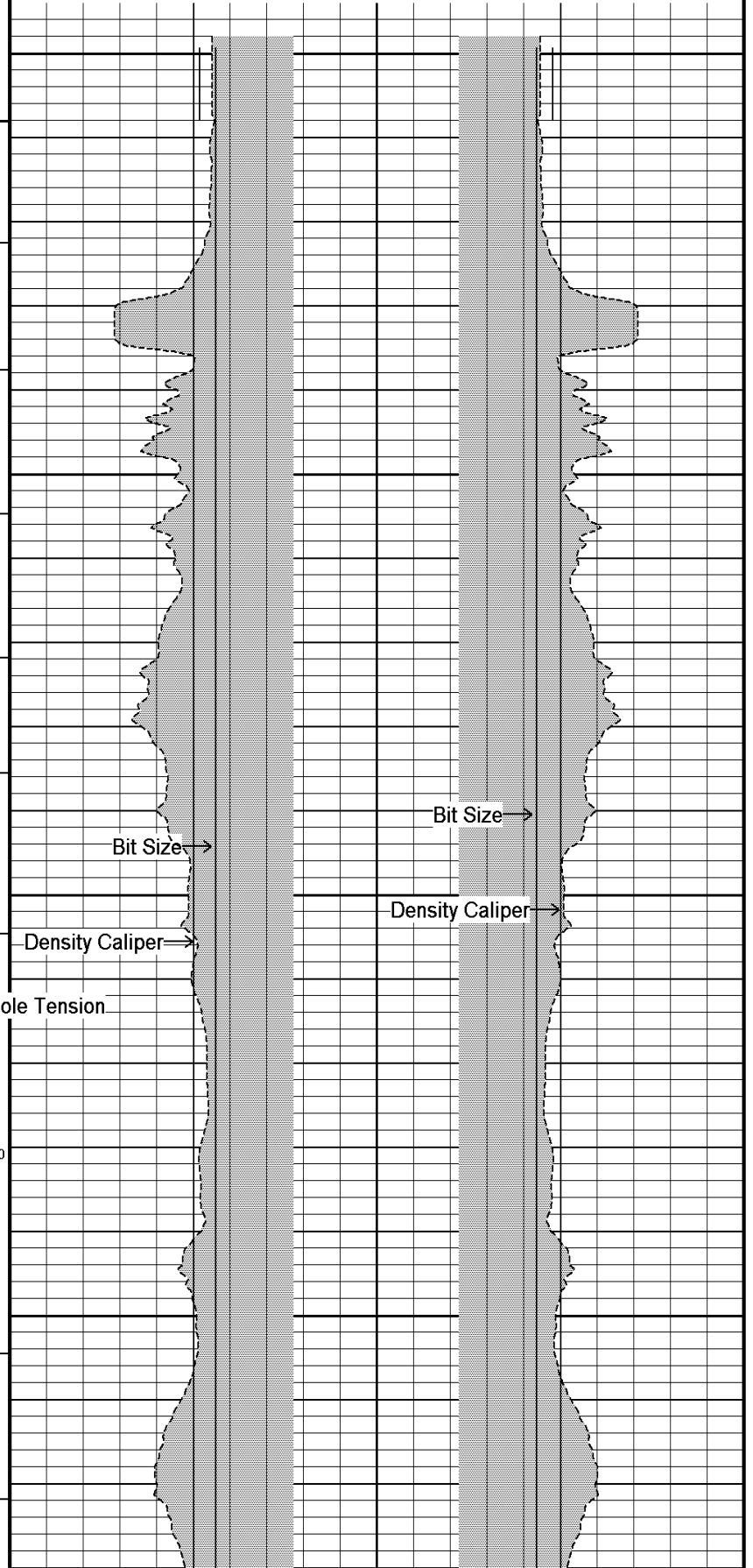
Gamma Ray

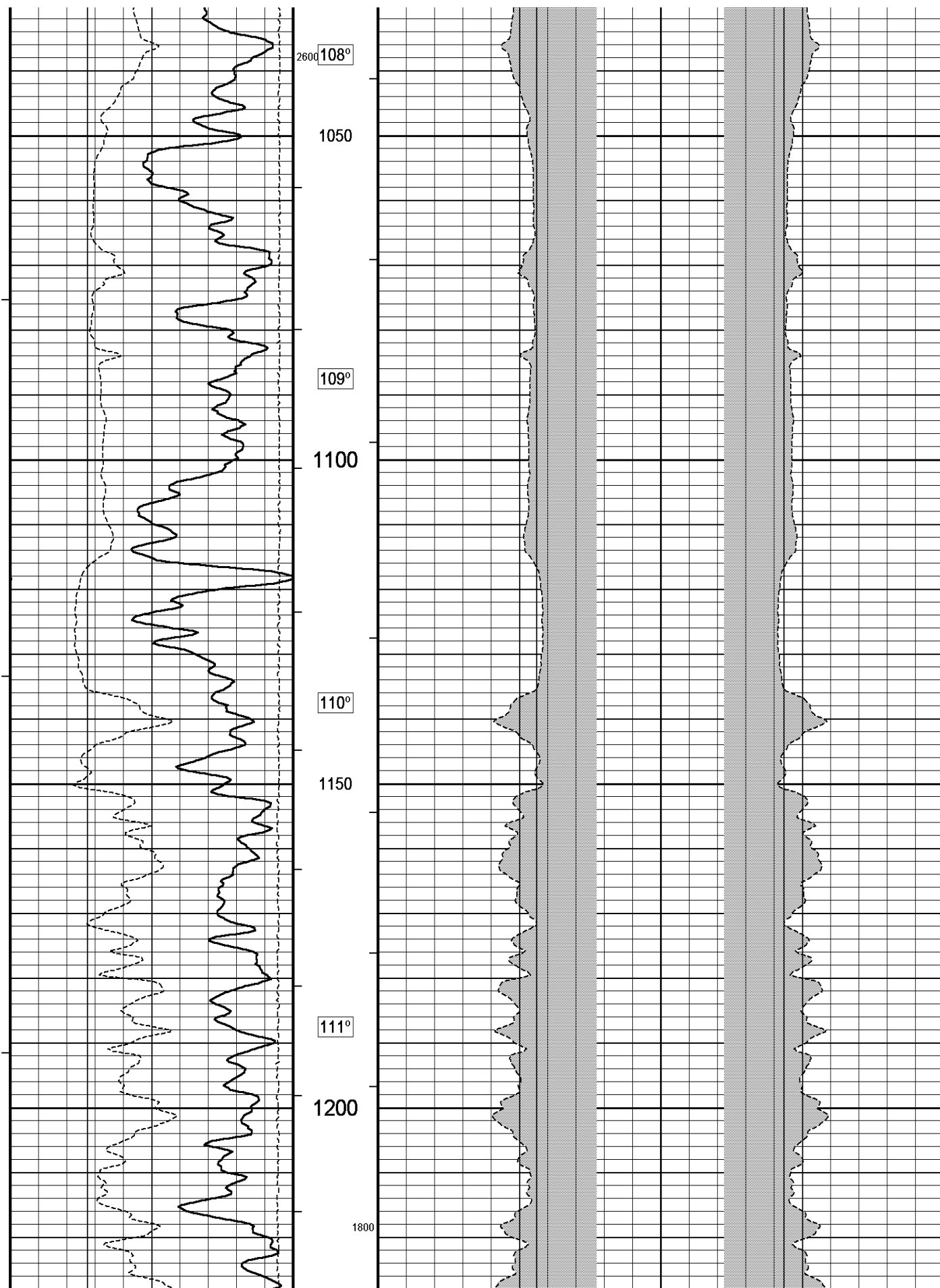
DST Uphole Tension

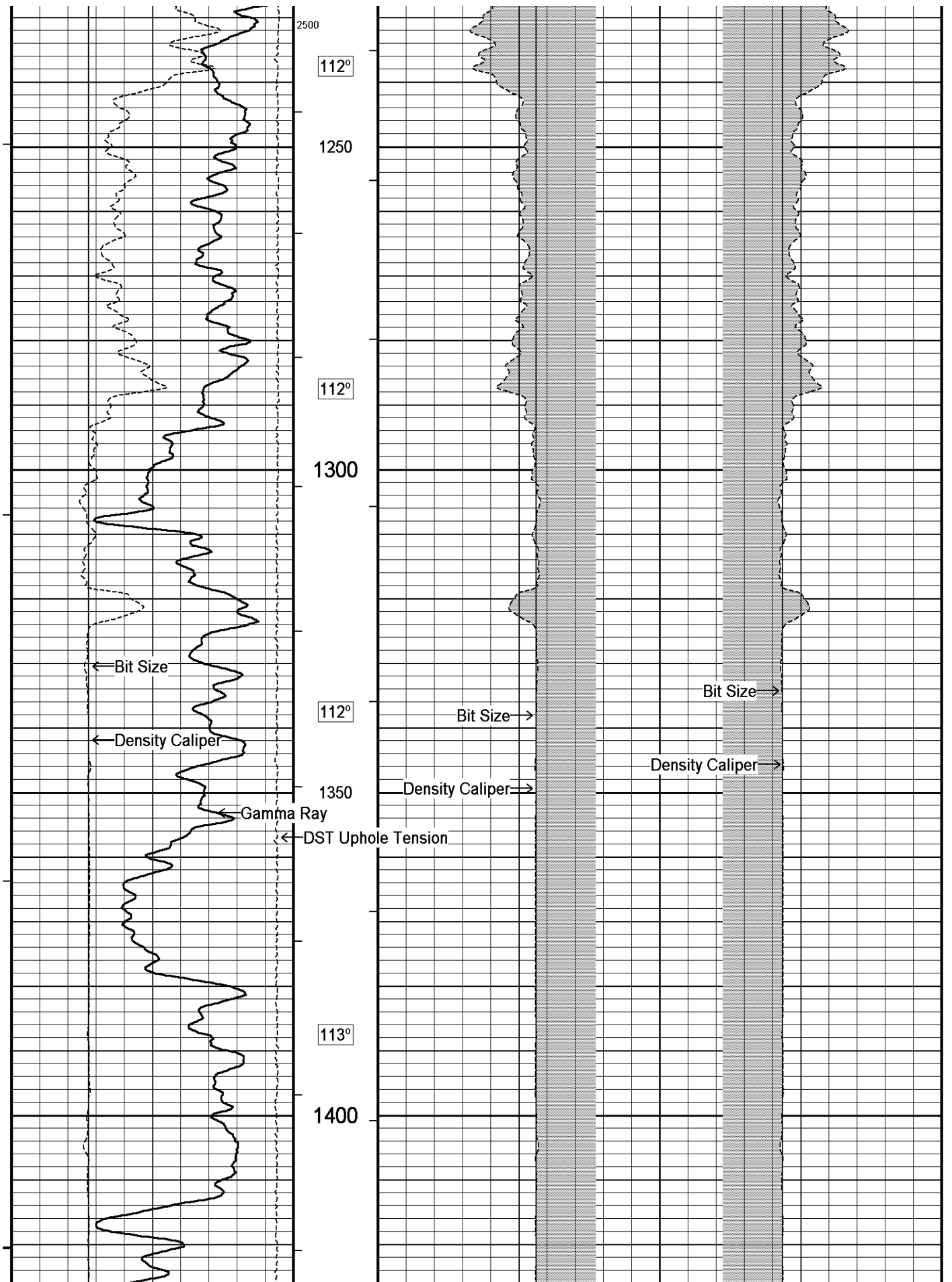
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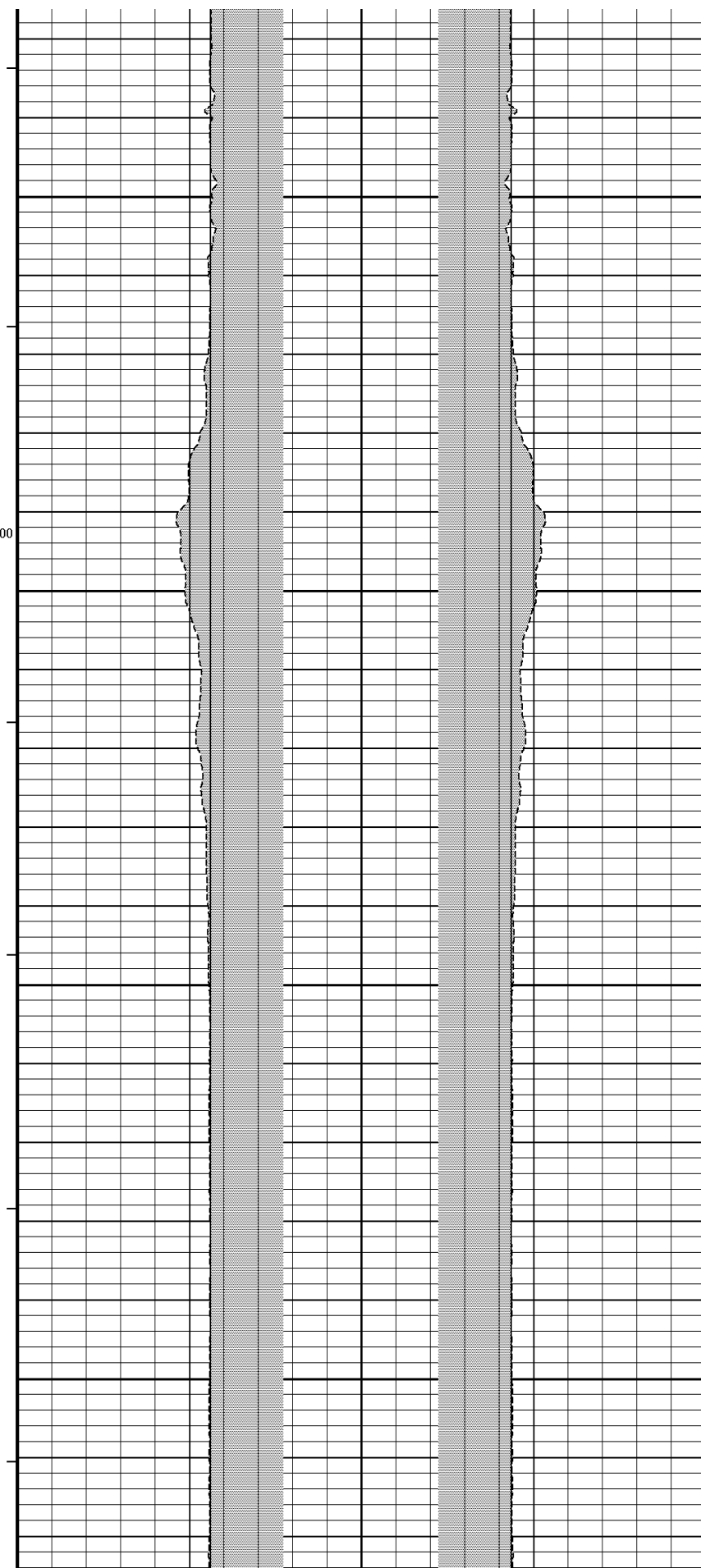
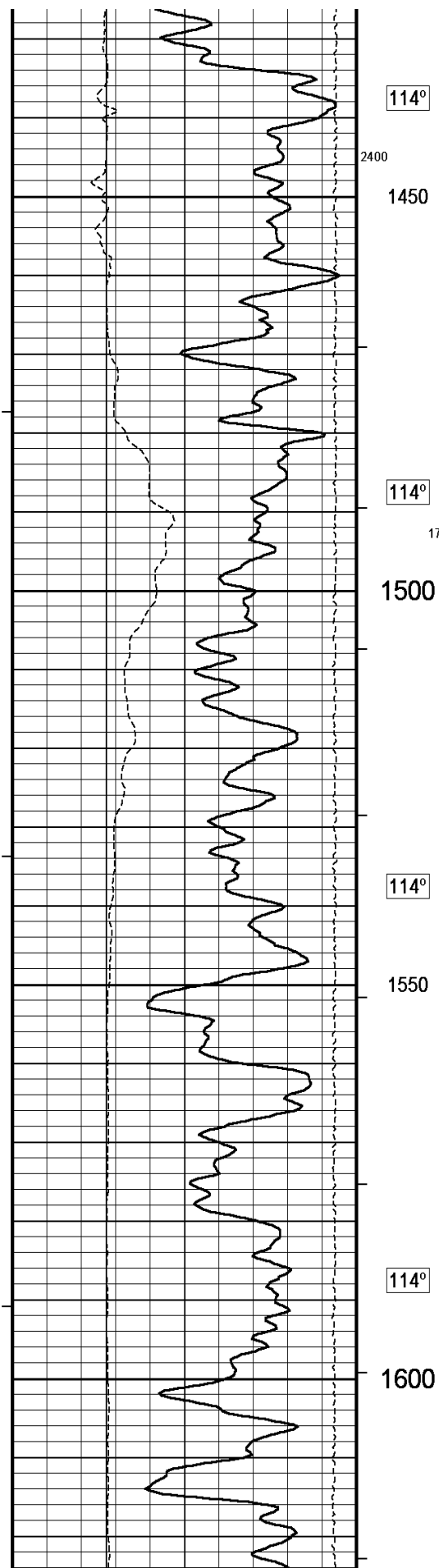
108°

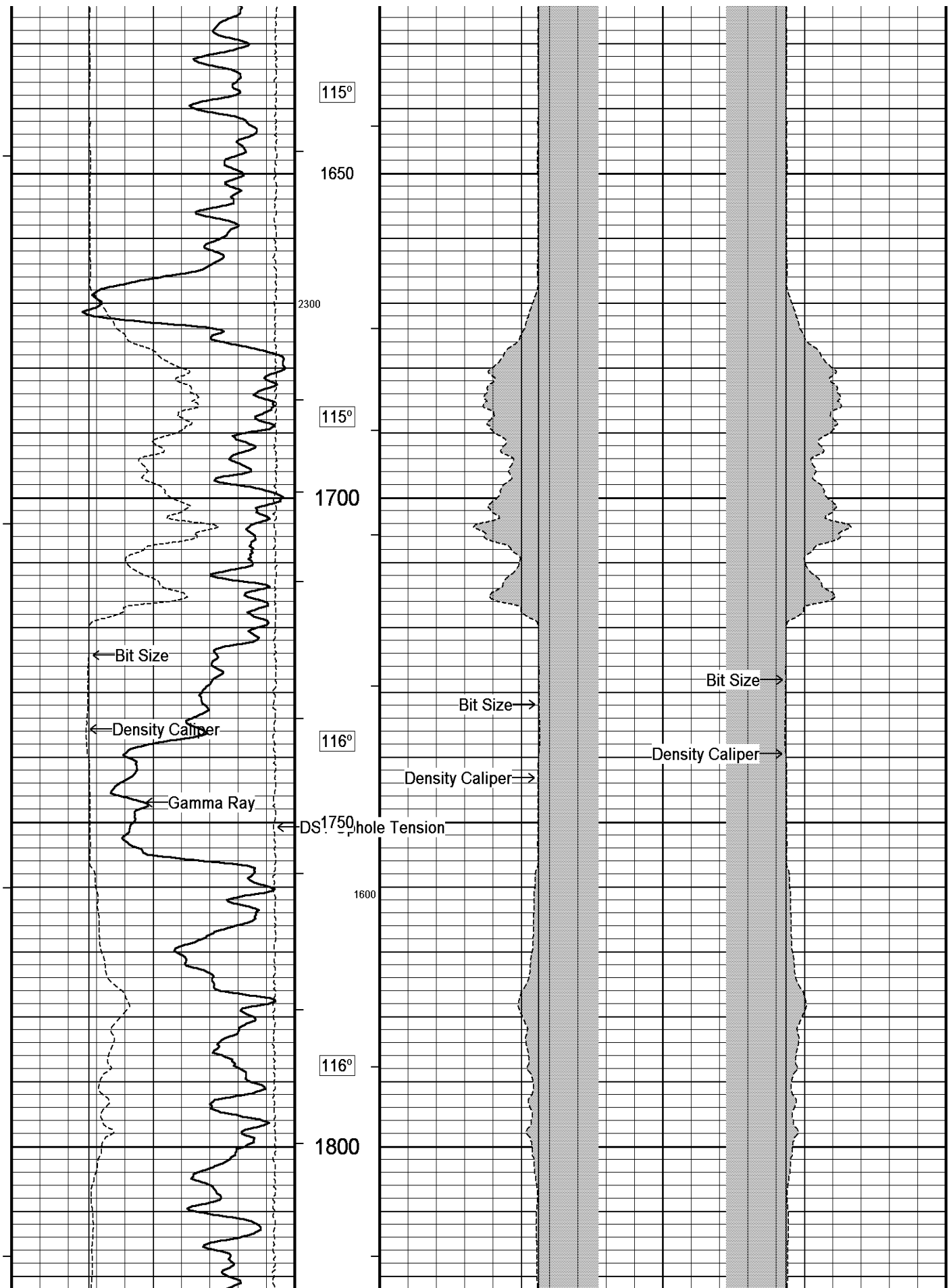
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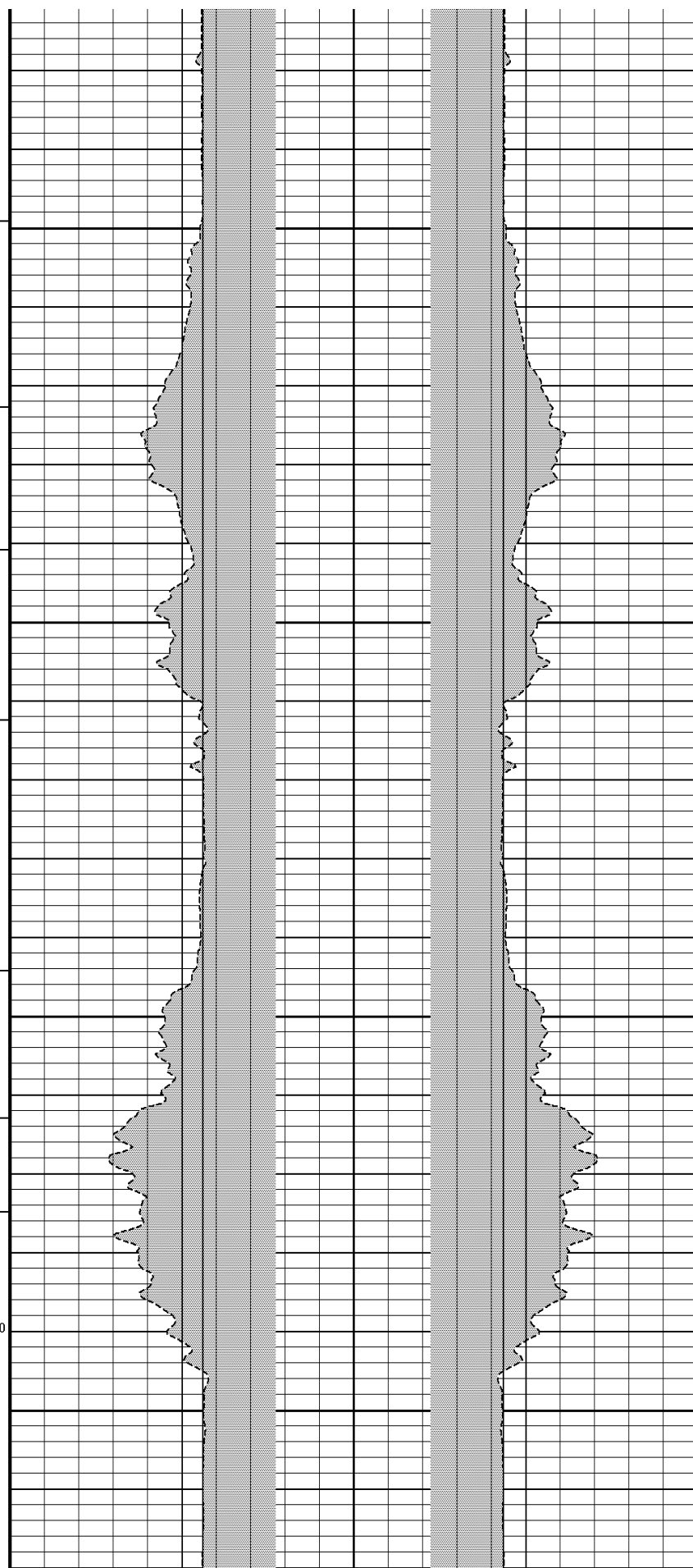
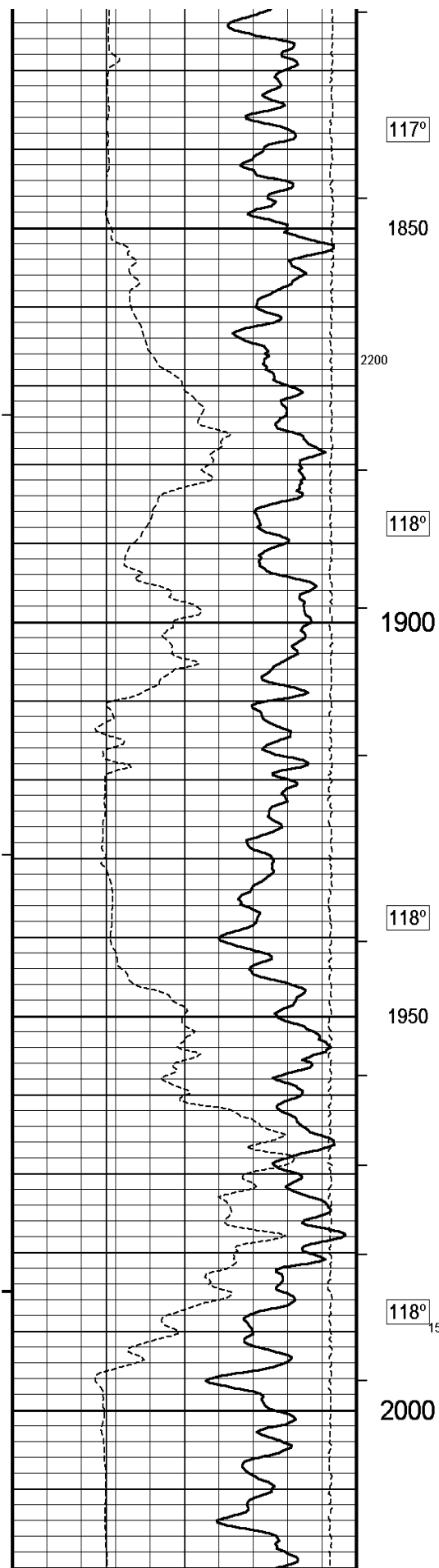


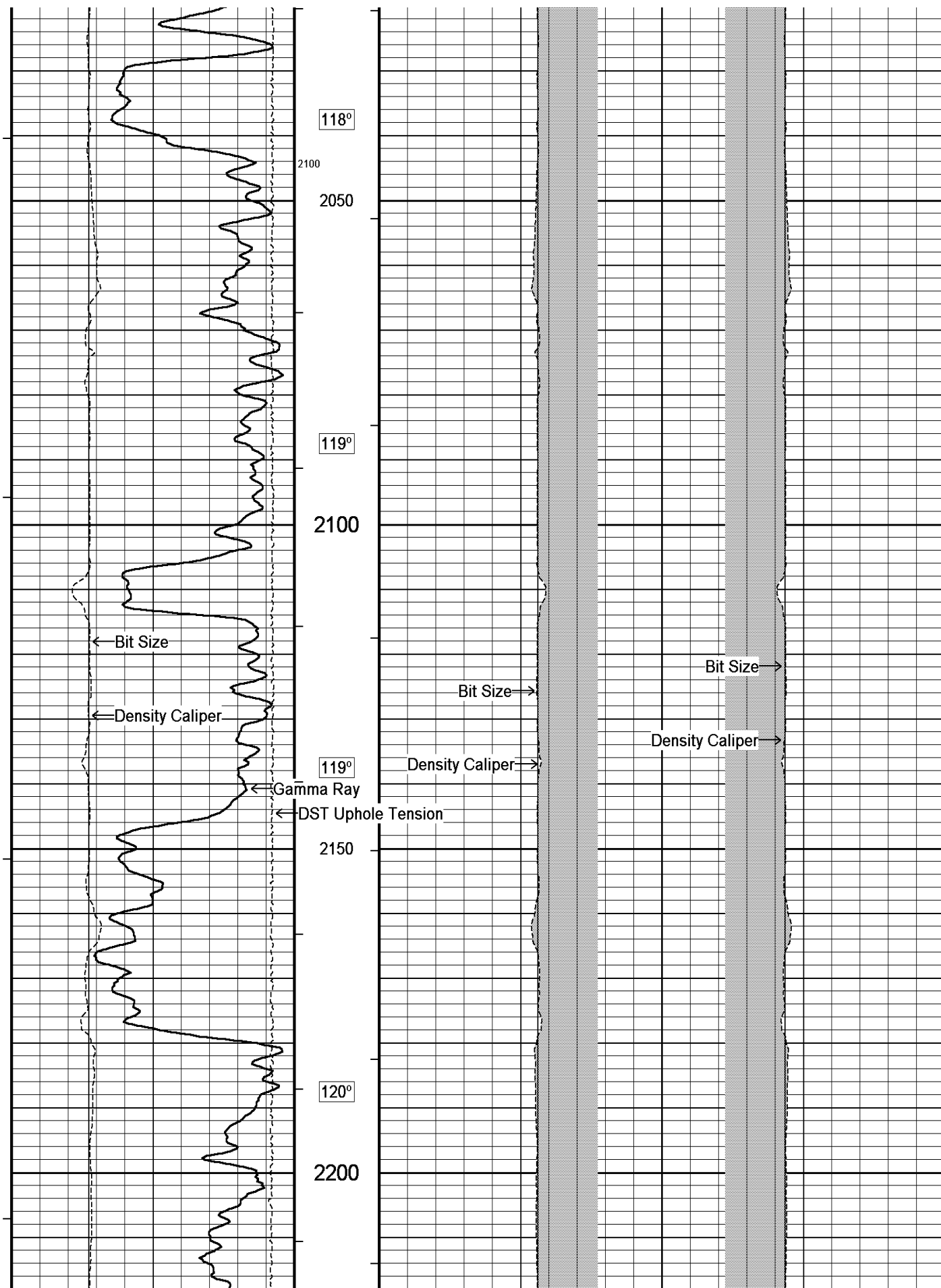


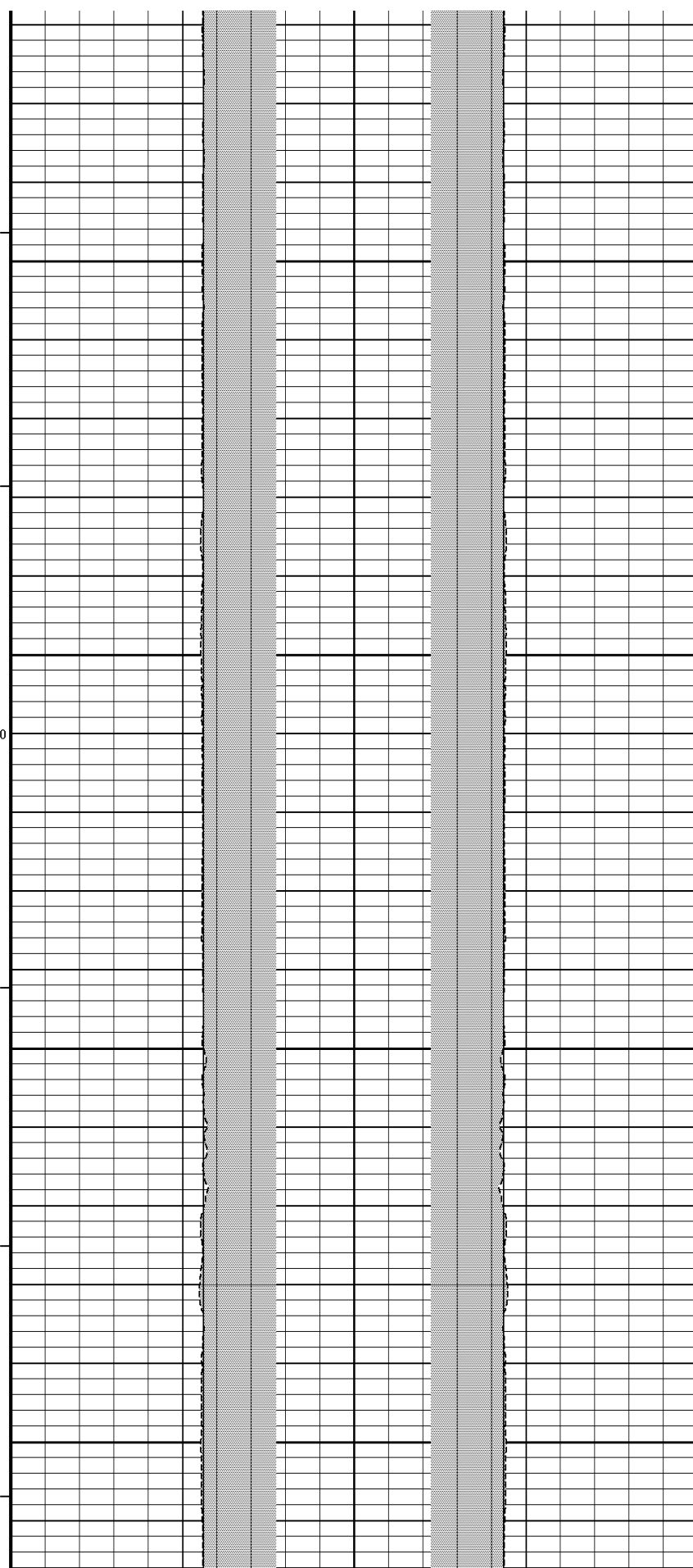
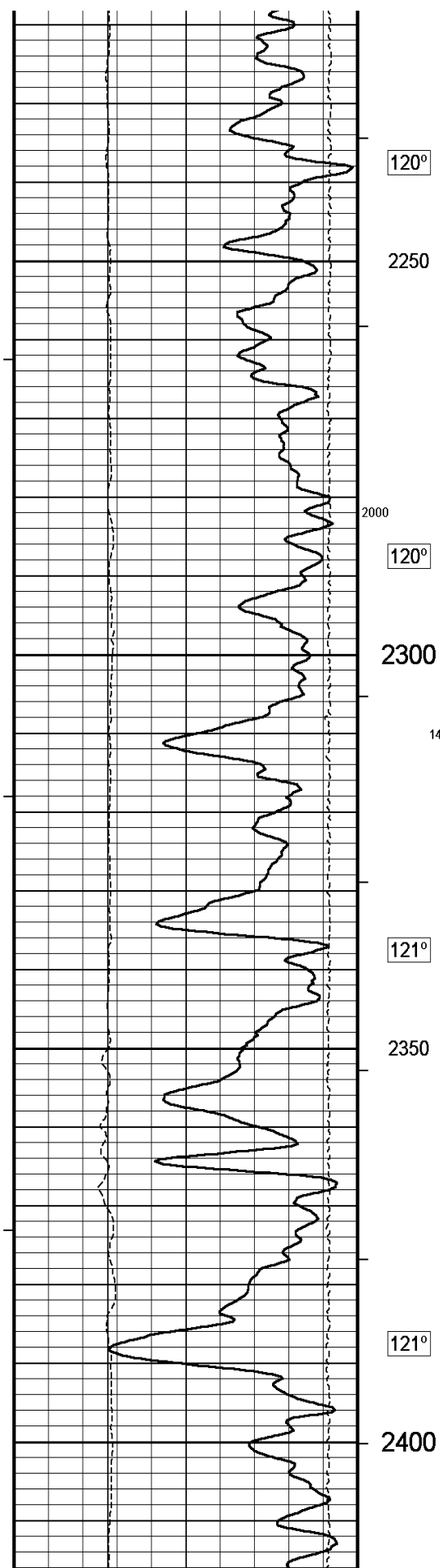


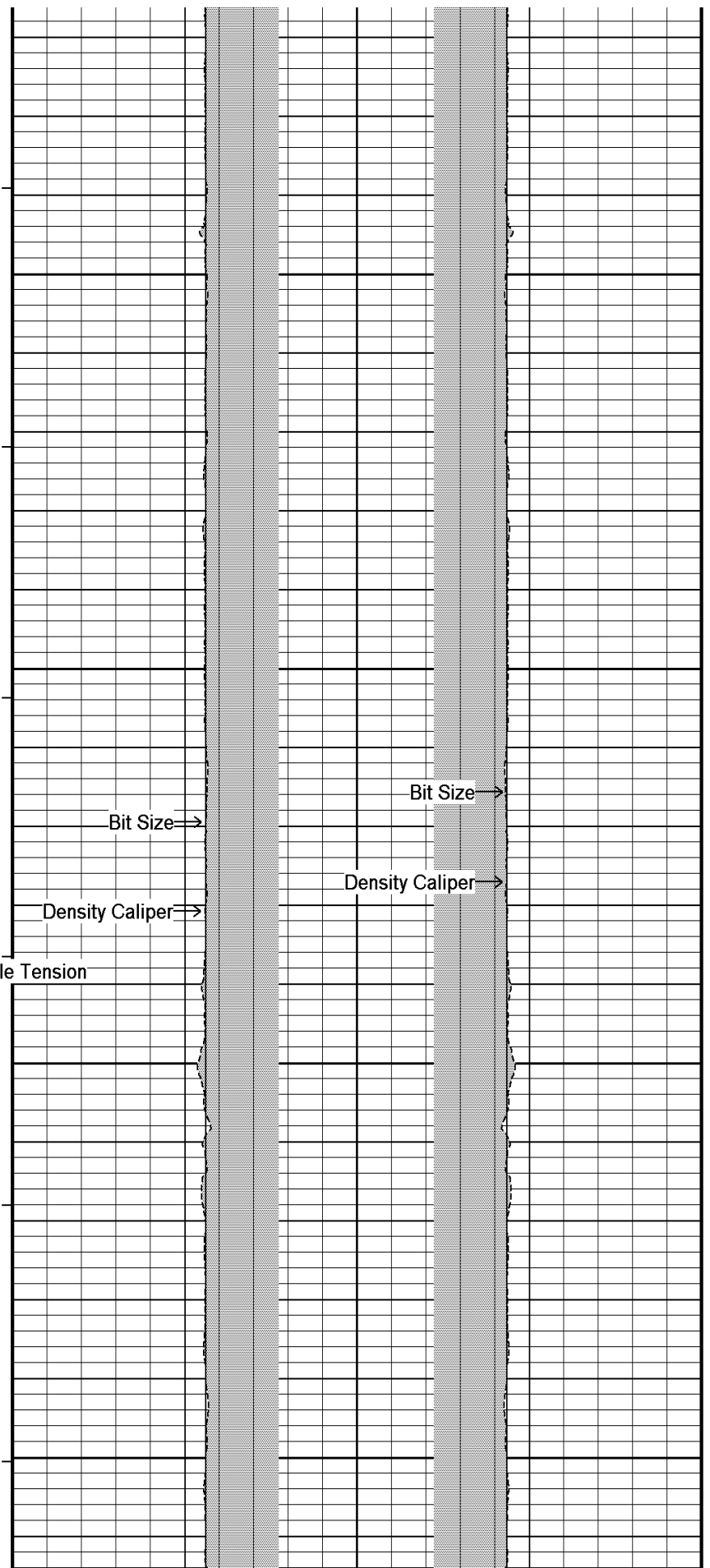
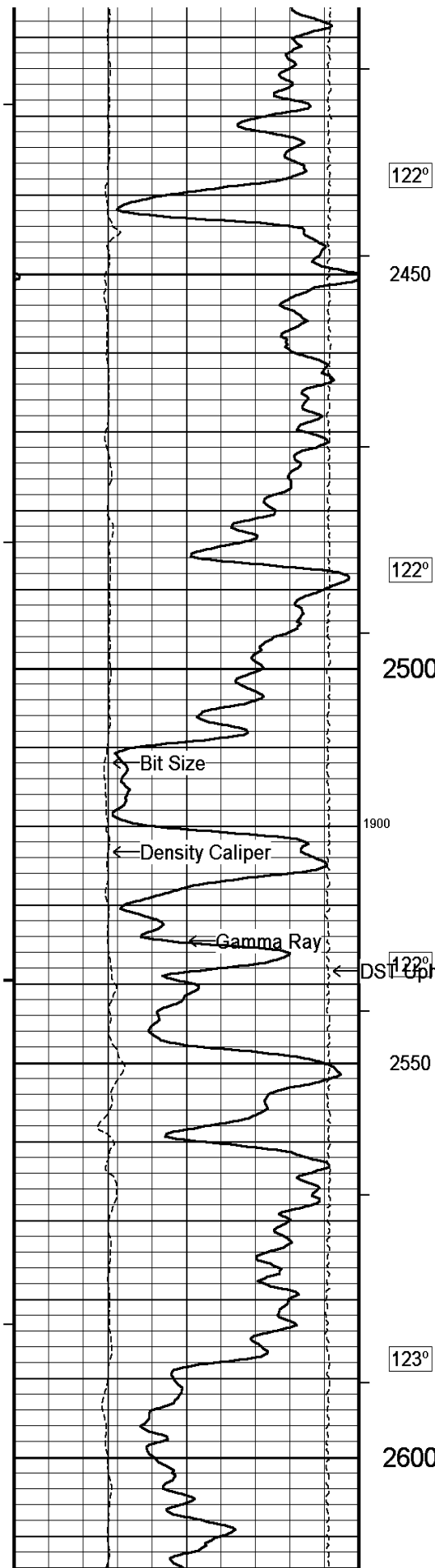


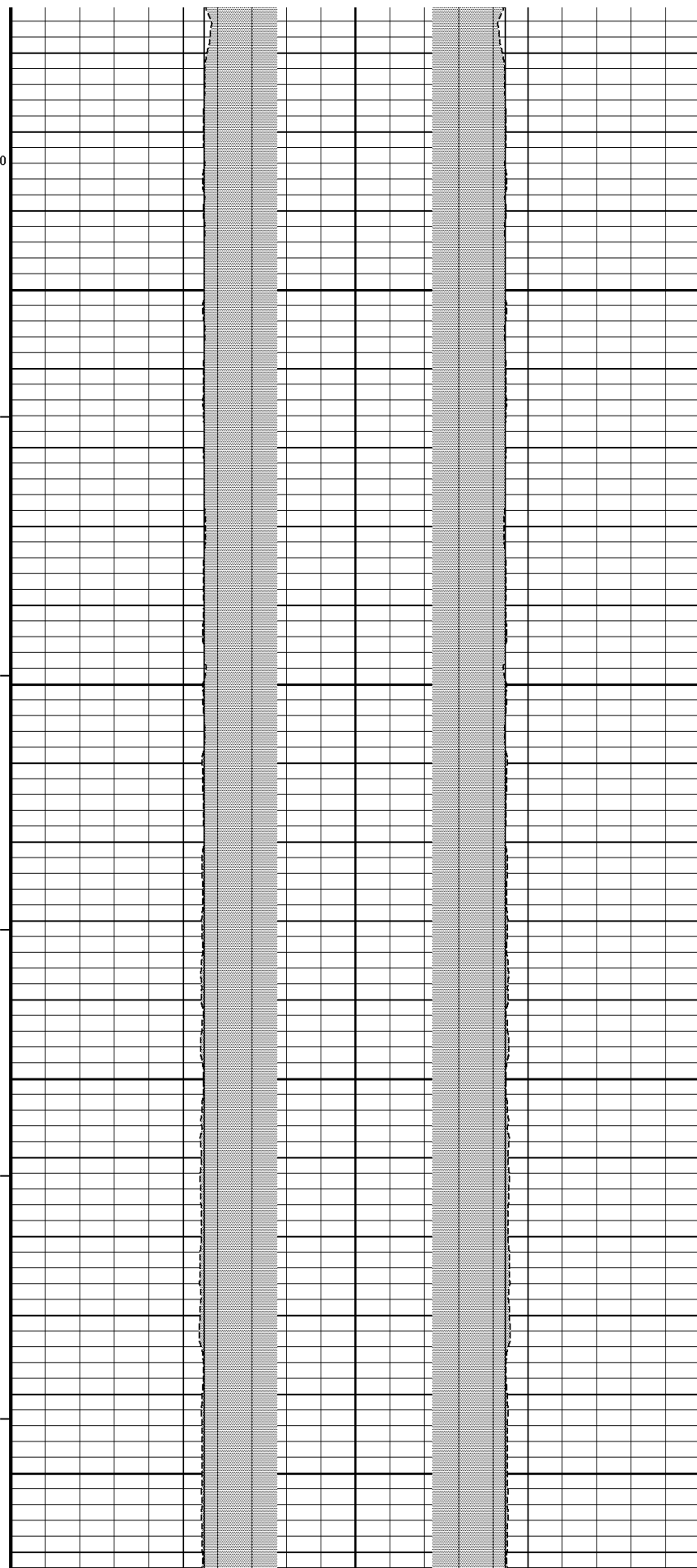
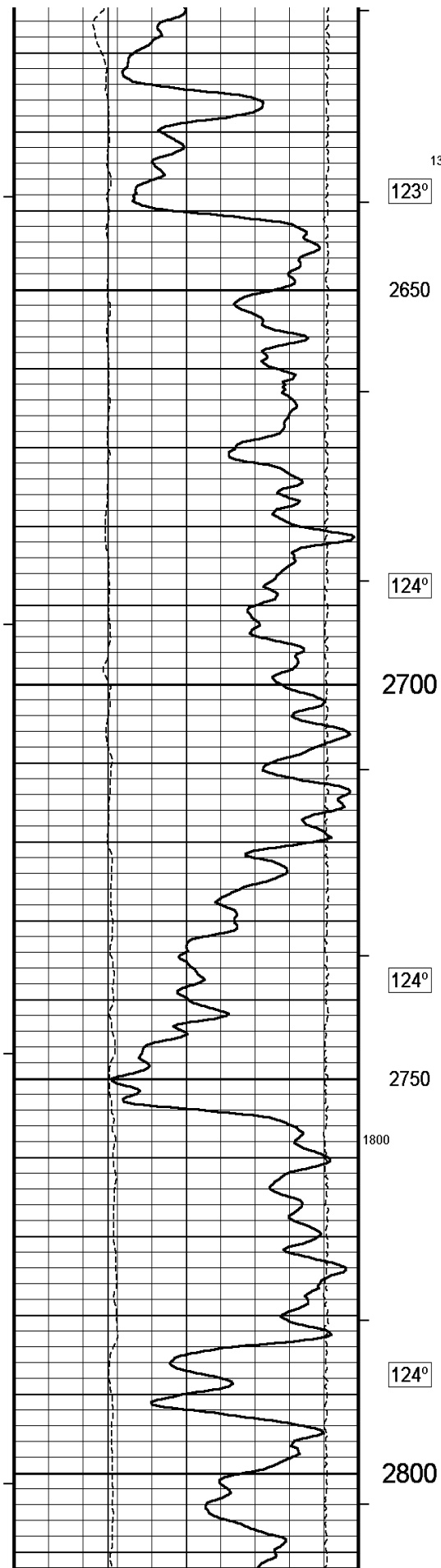


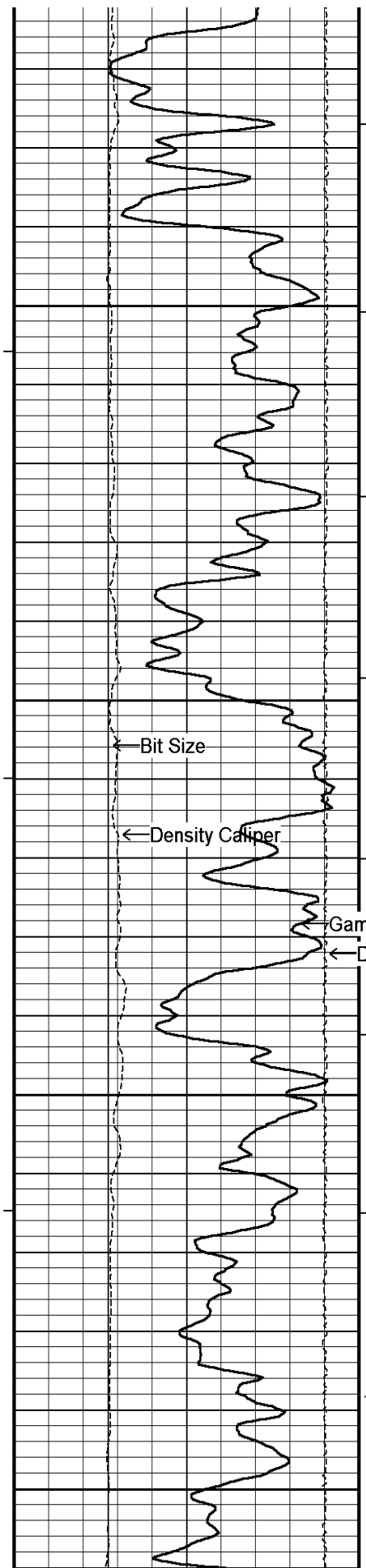












125°

2850

126°

2900

Bit Size

Density Caliper

Gamma Ray

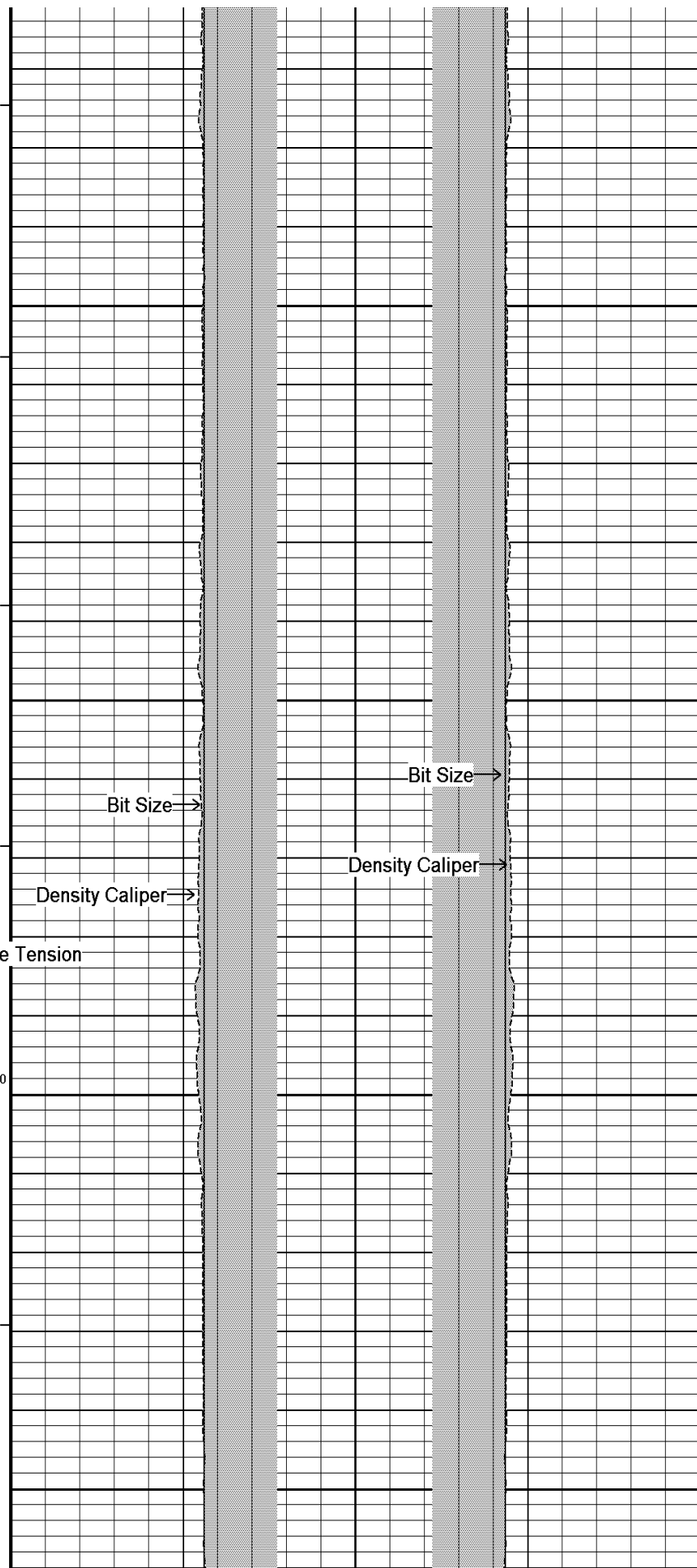
DST Uphole Tension

127°

2950

1700 128°

3000

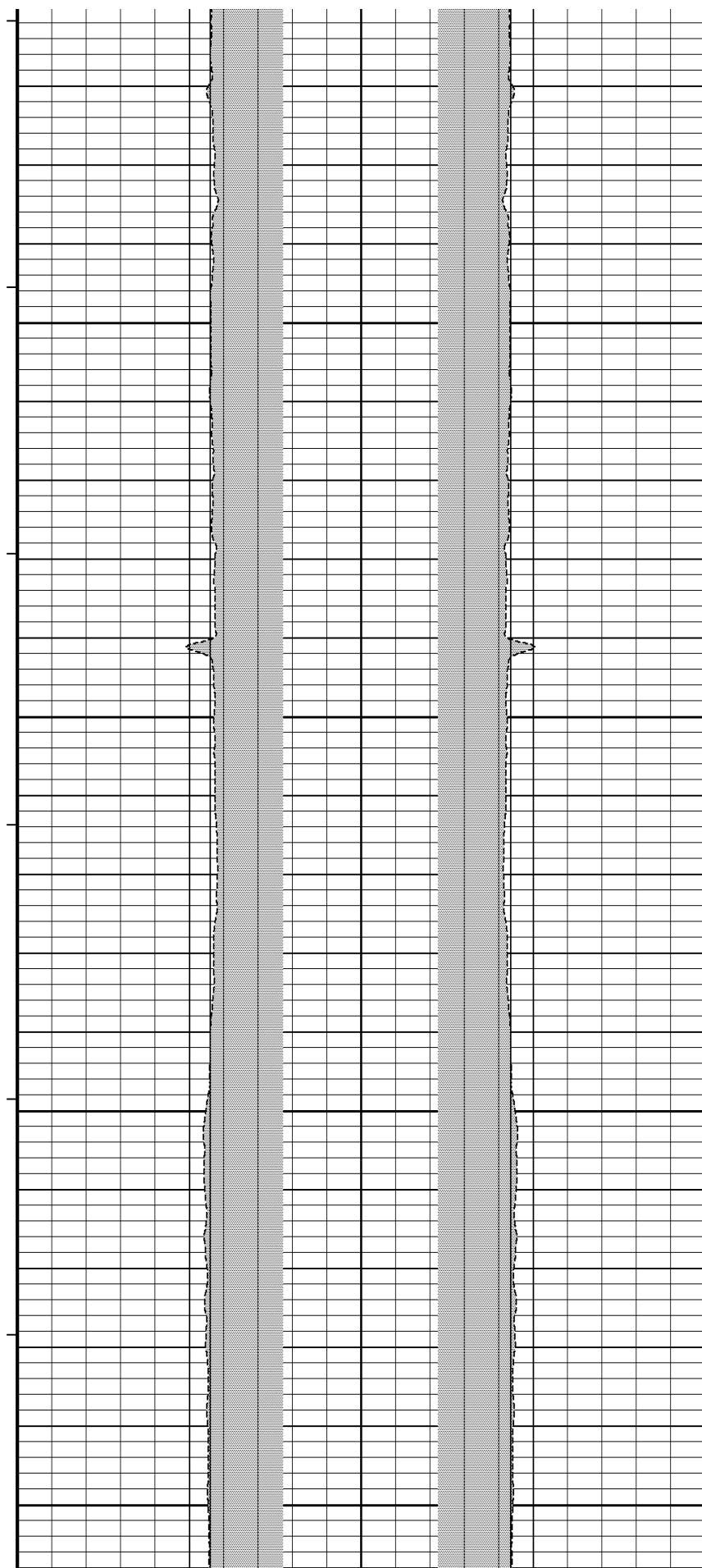
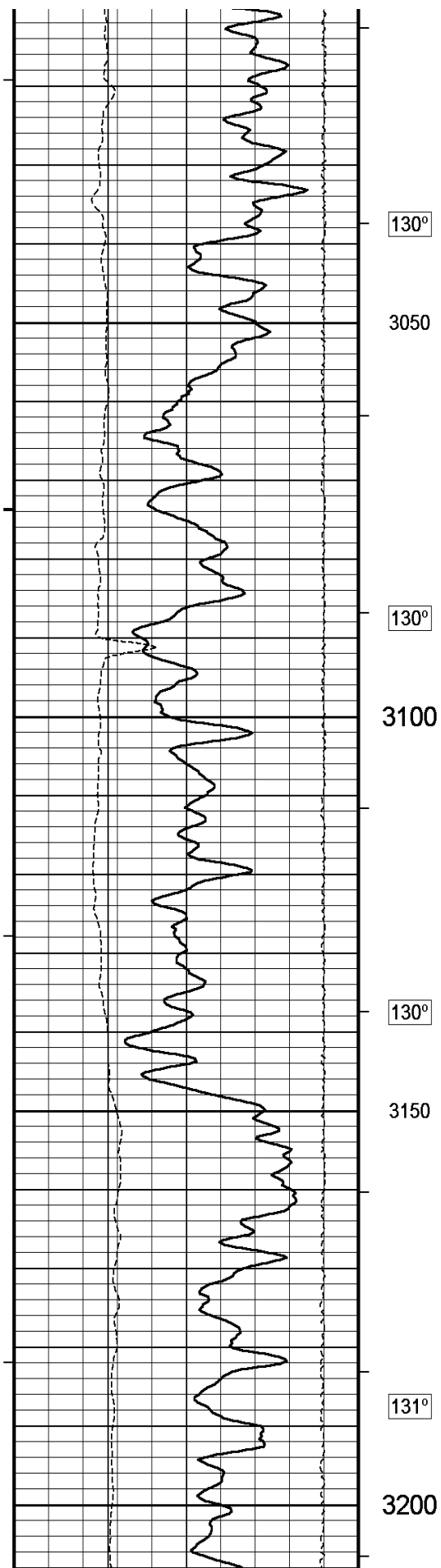


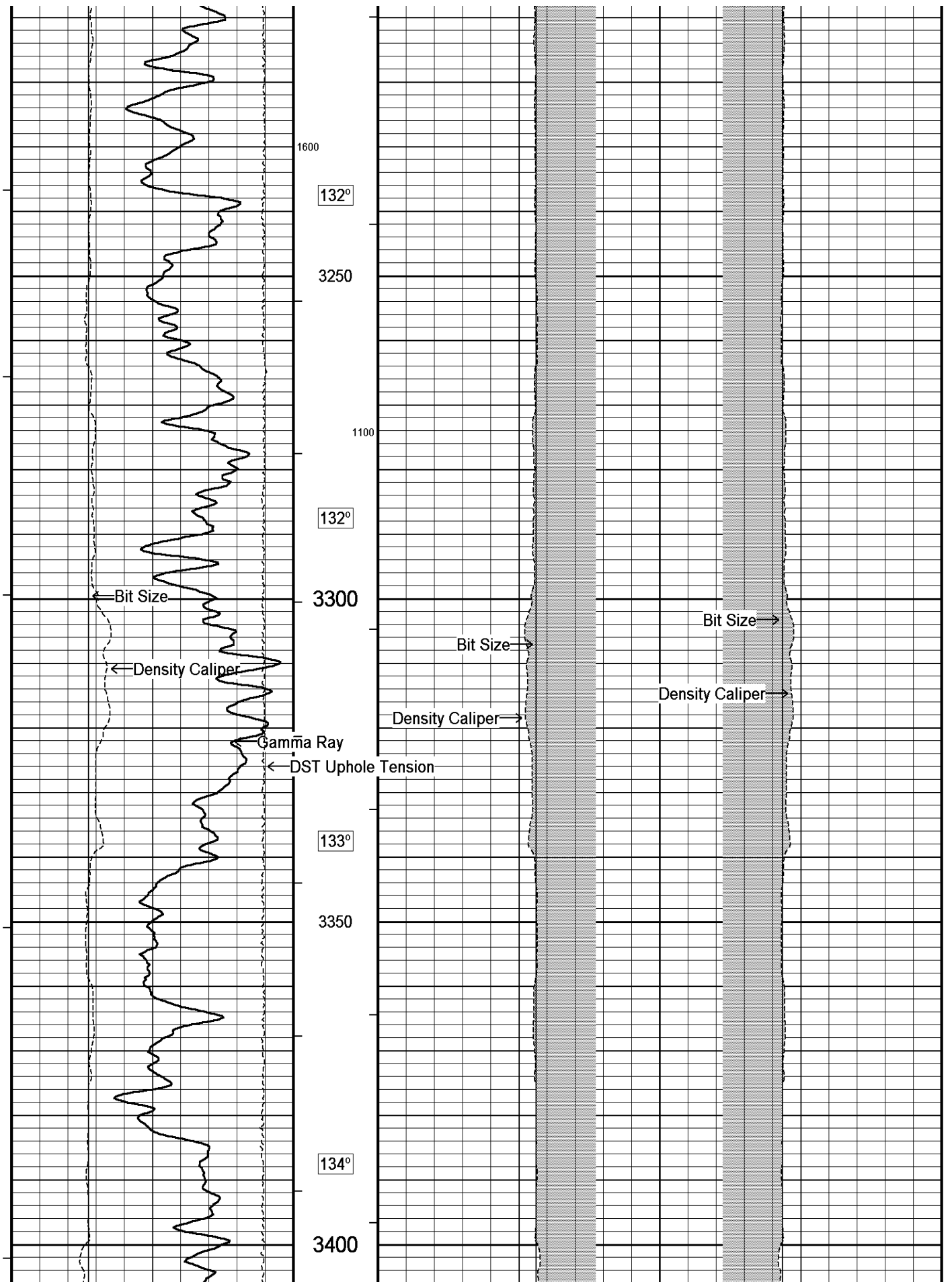
Bit Size

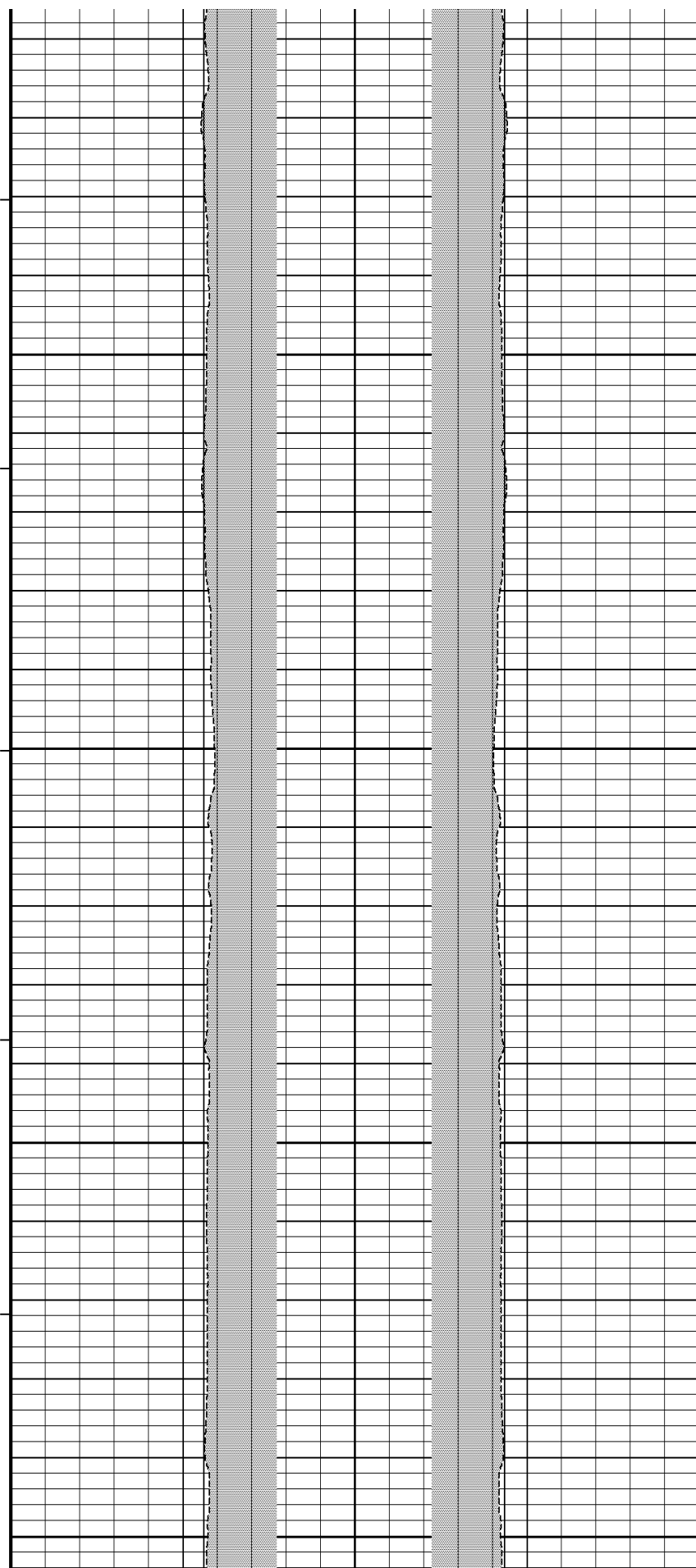
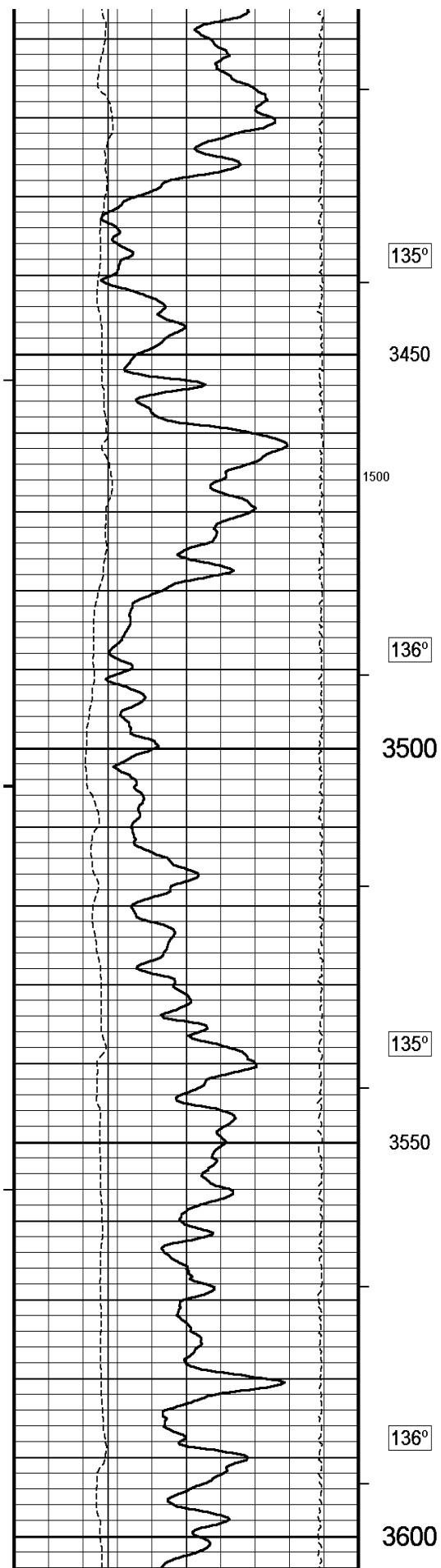
Density Caliper

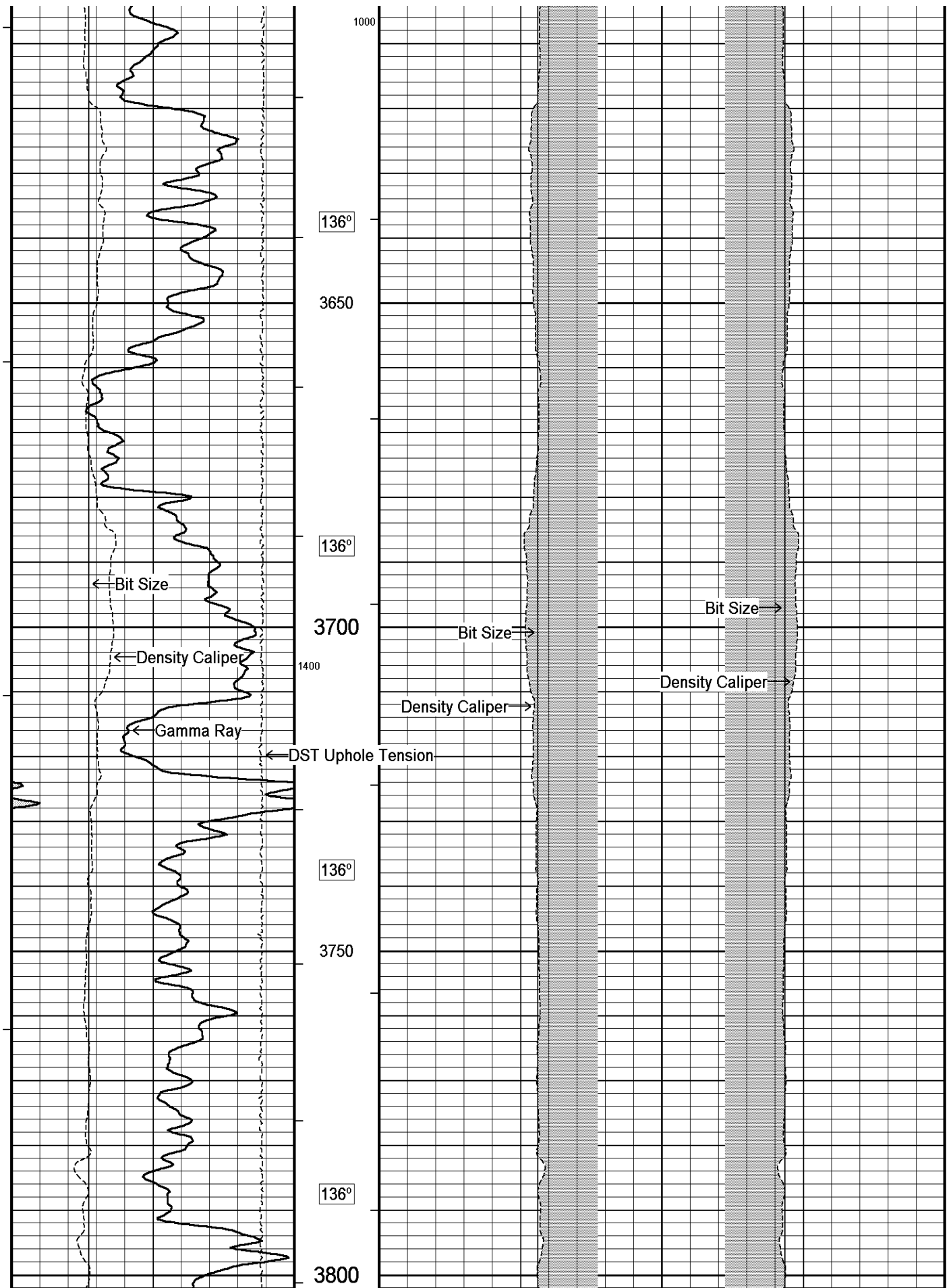
Bit Size

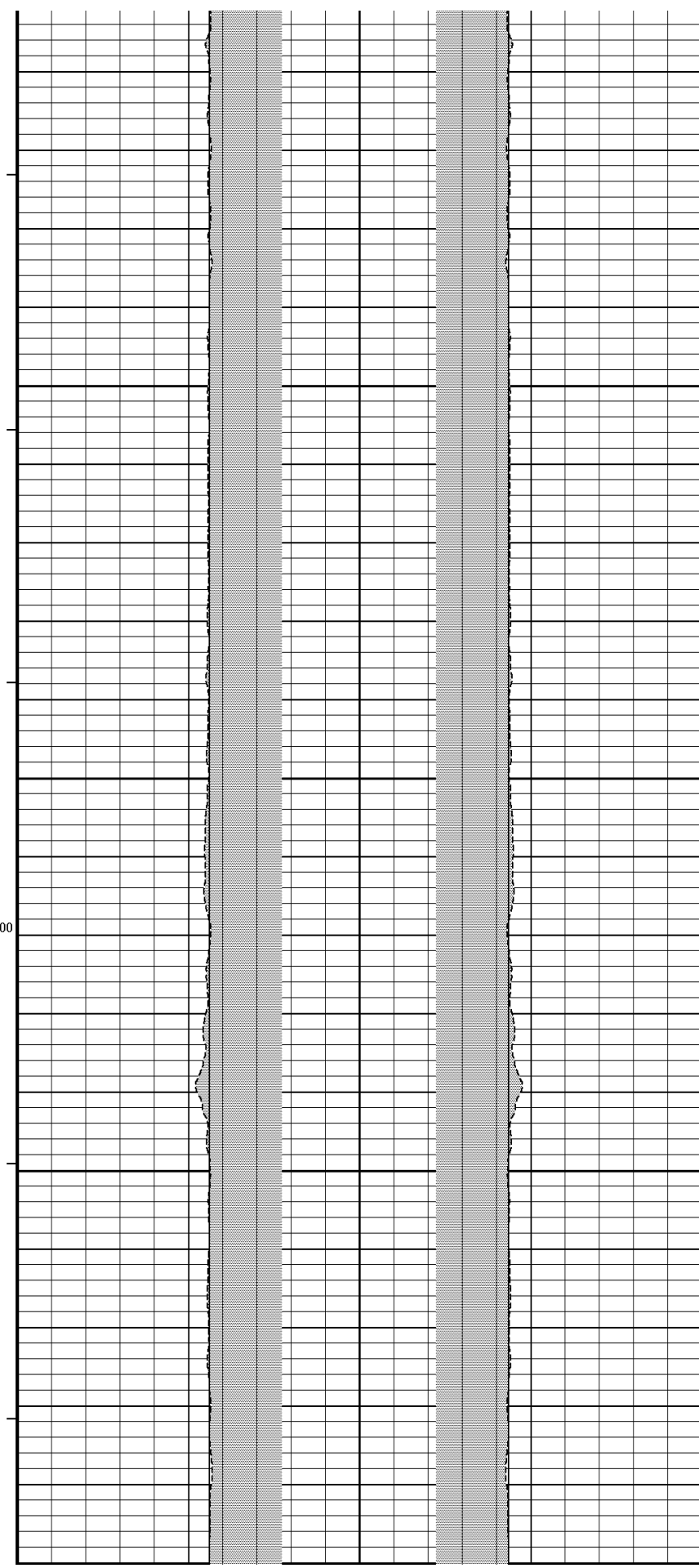
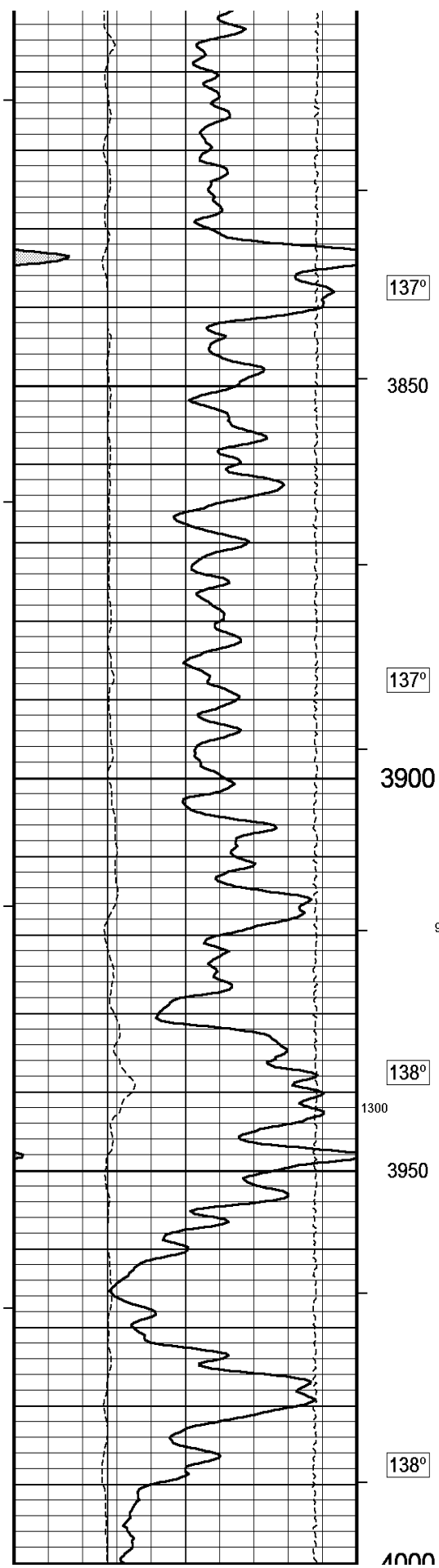
Density Caliper

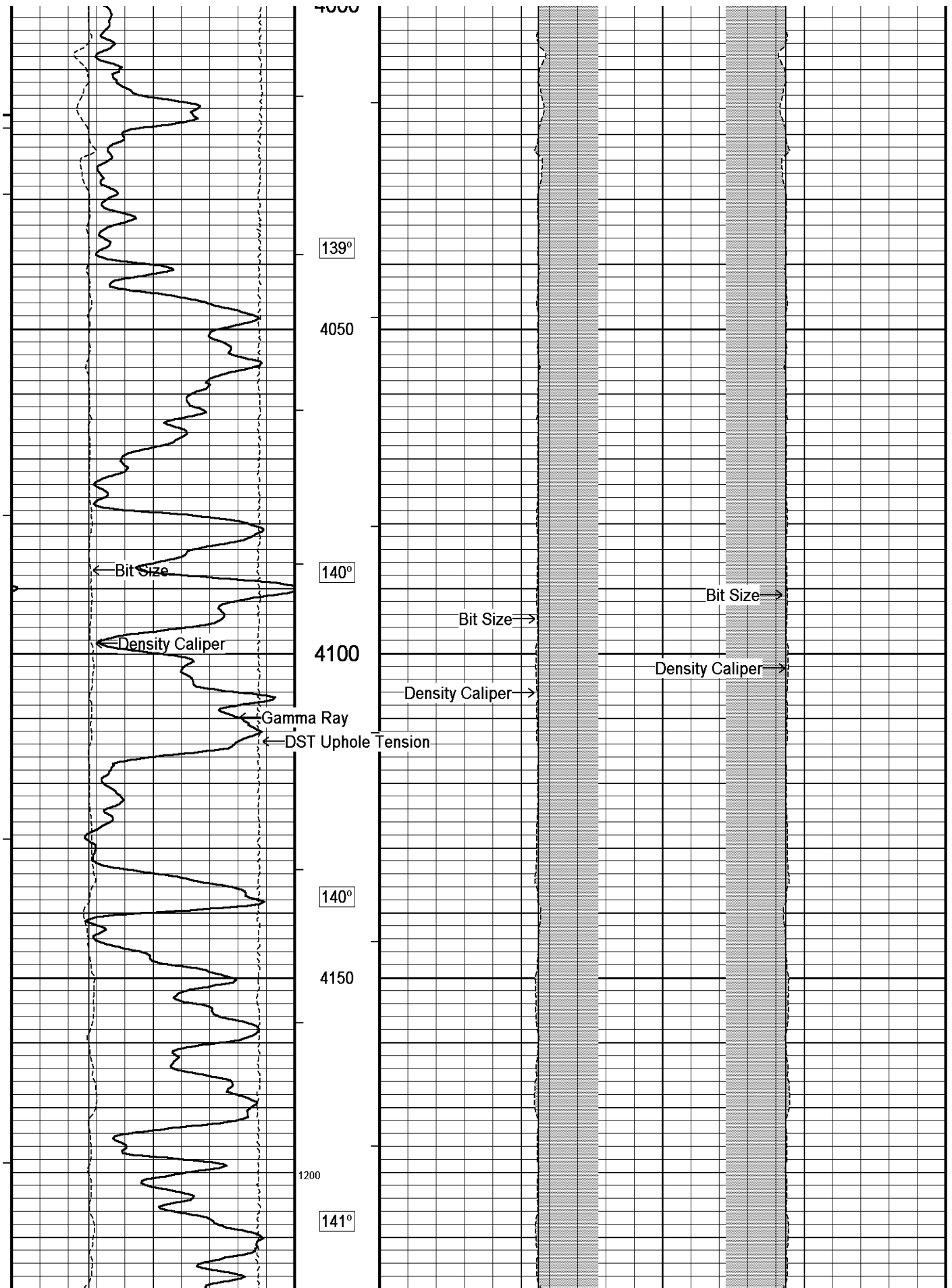


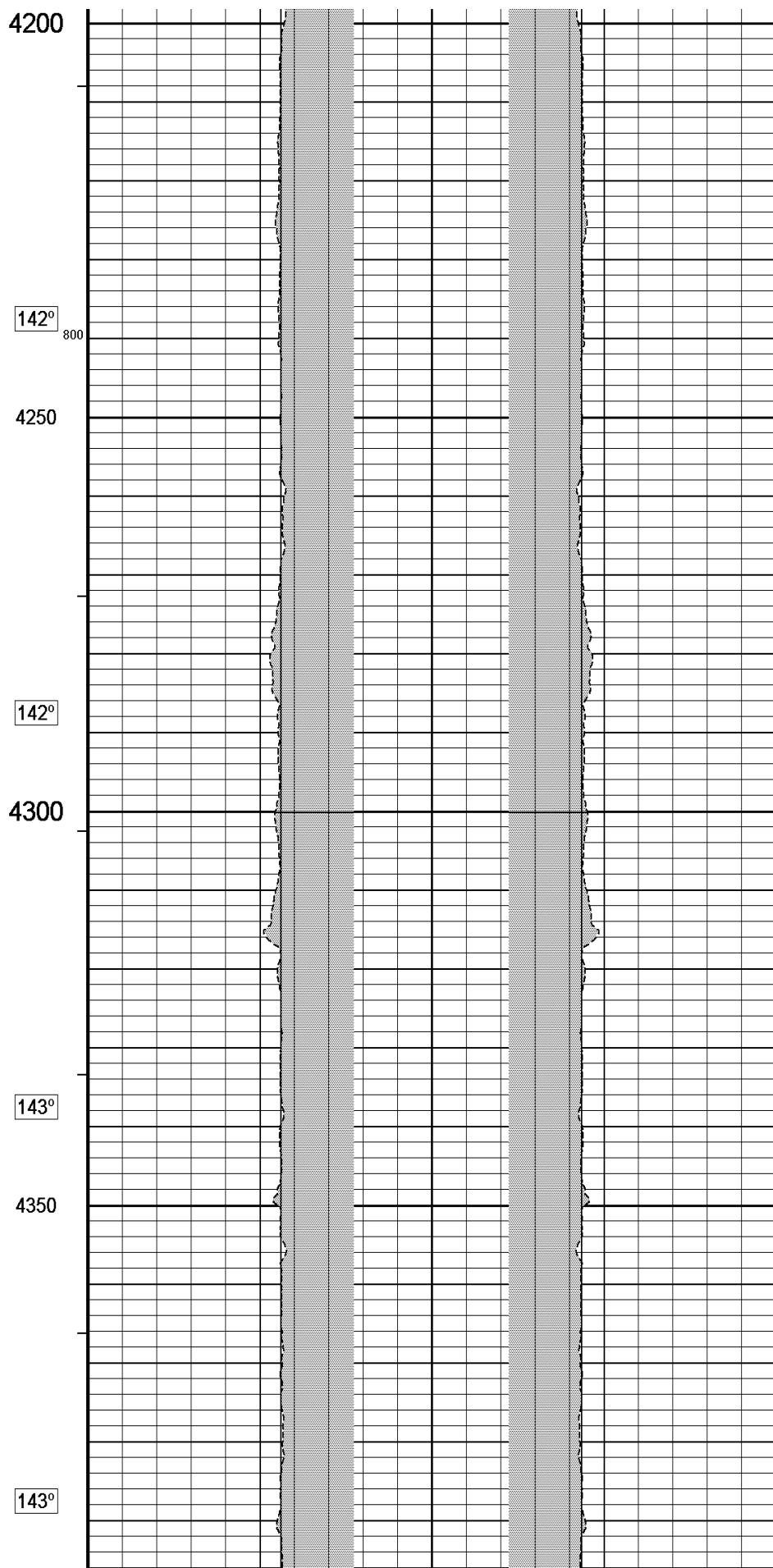
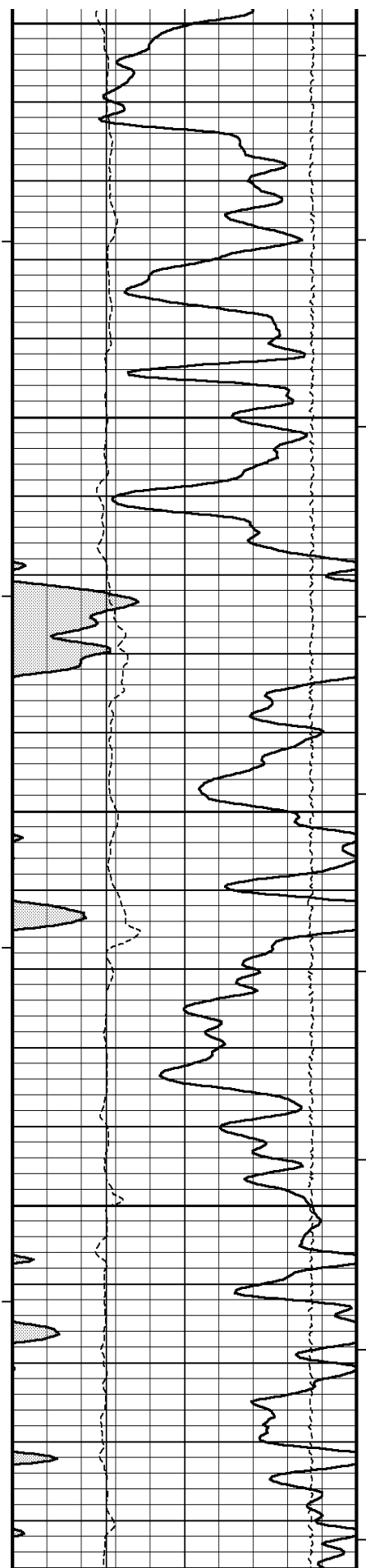


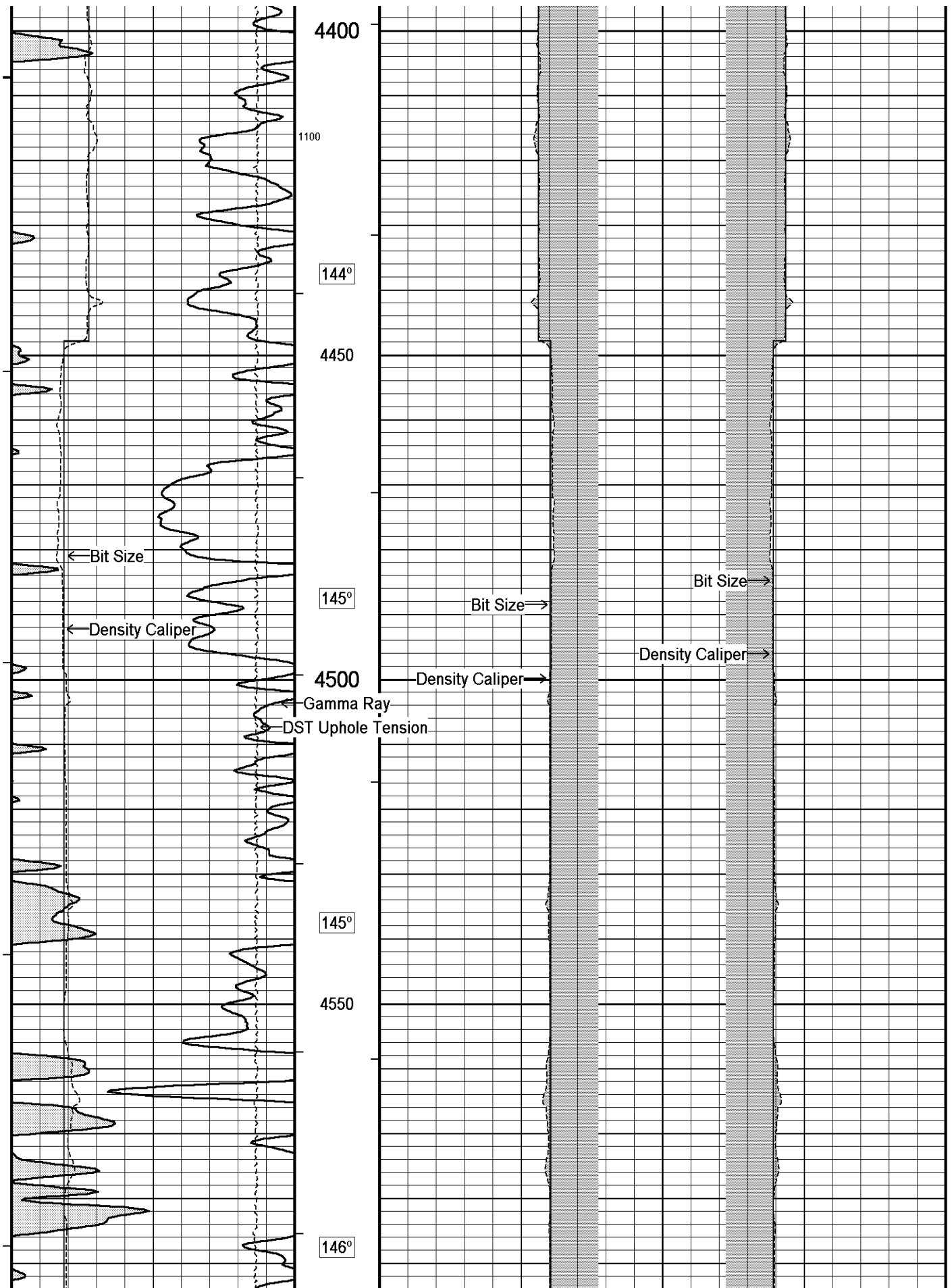


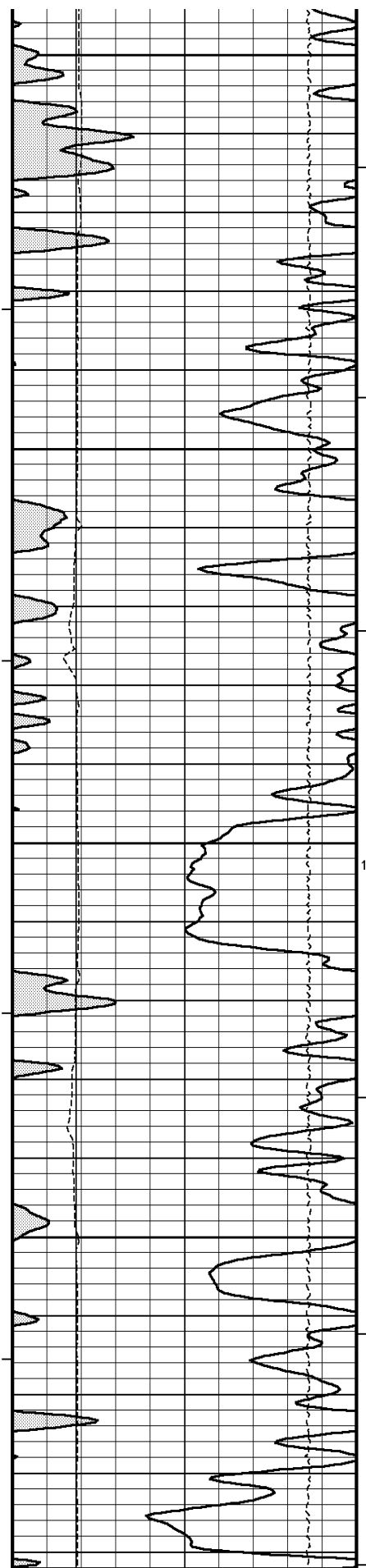












4600⁷⁰⁰

146°

4650

147°

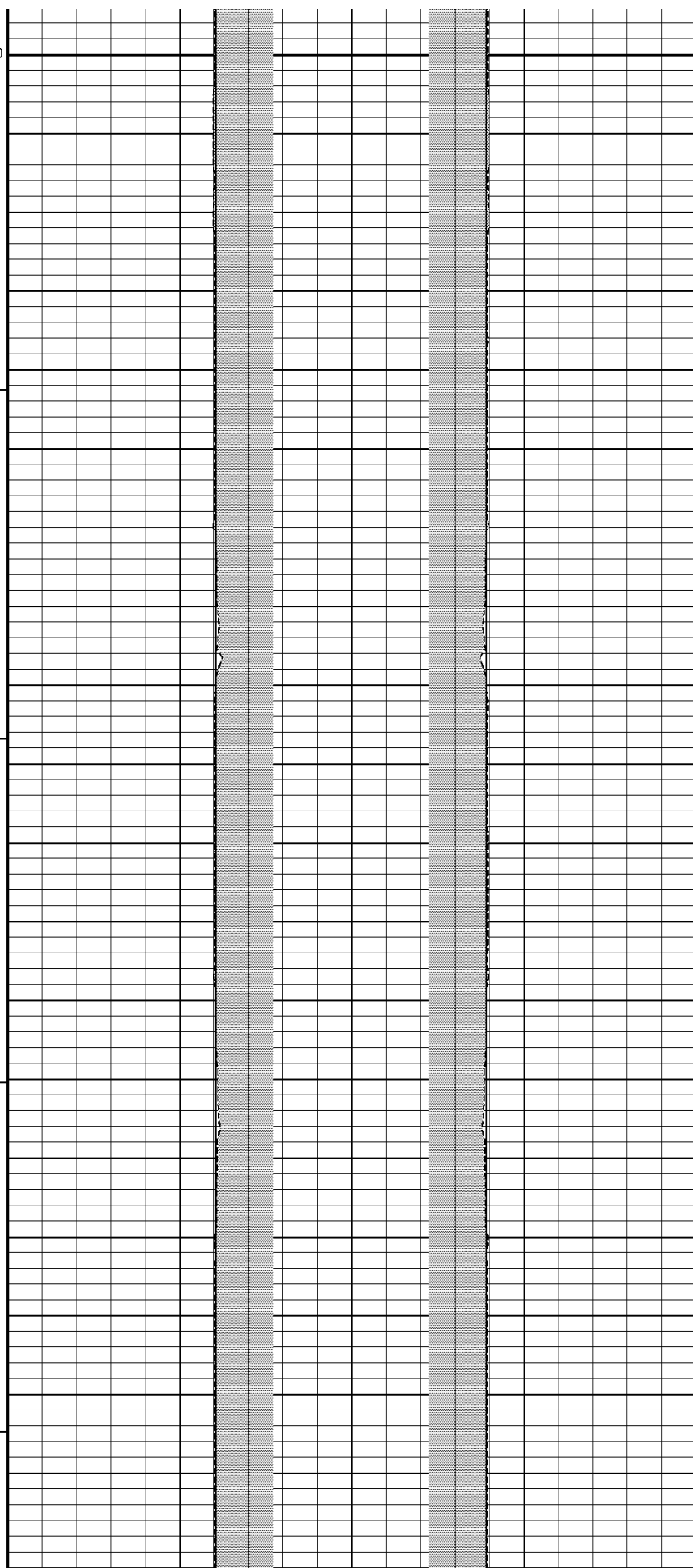
4700

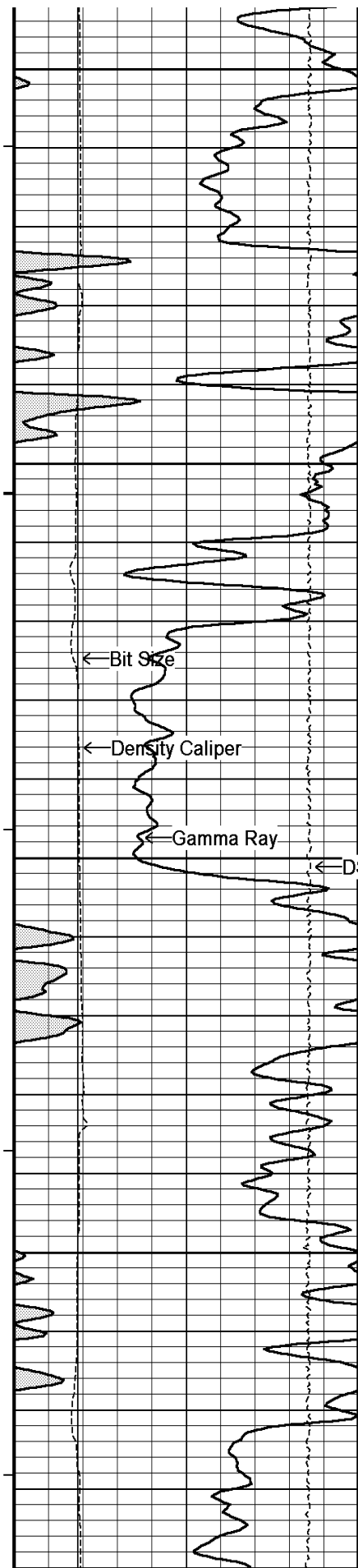
1000

147°

4750

148°





4800

149°

4850

← Bit Size

← Density Caliper

← Gamma Ray

← DST

149°

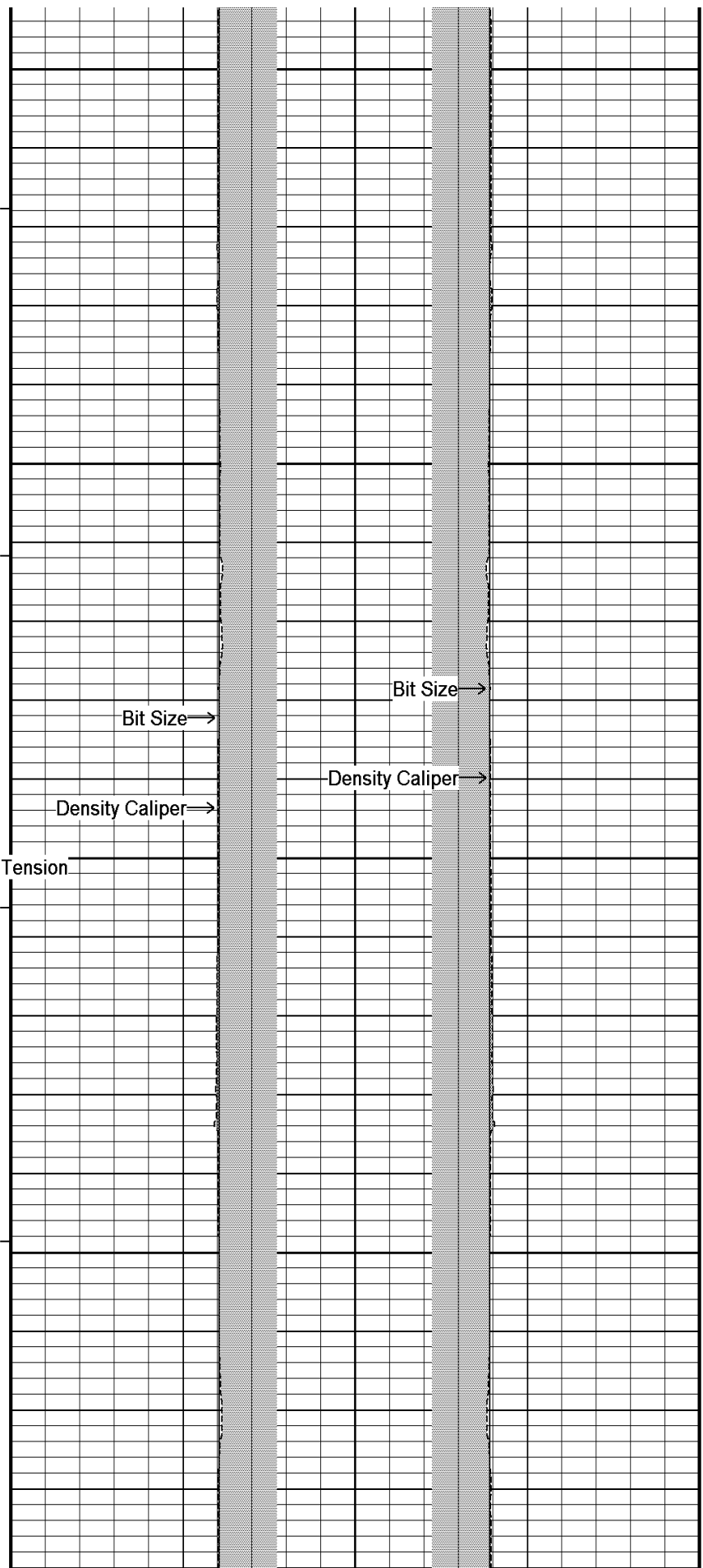
4900

150°

4950

151°

← DST



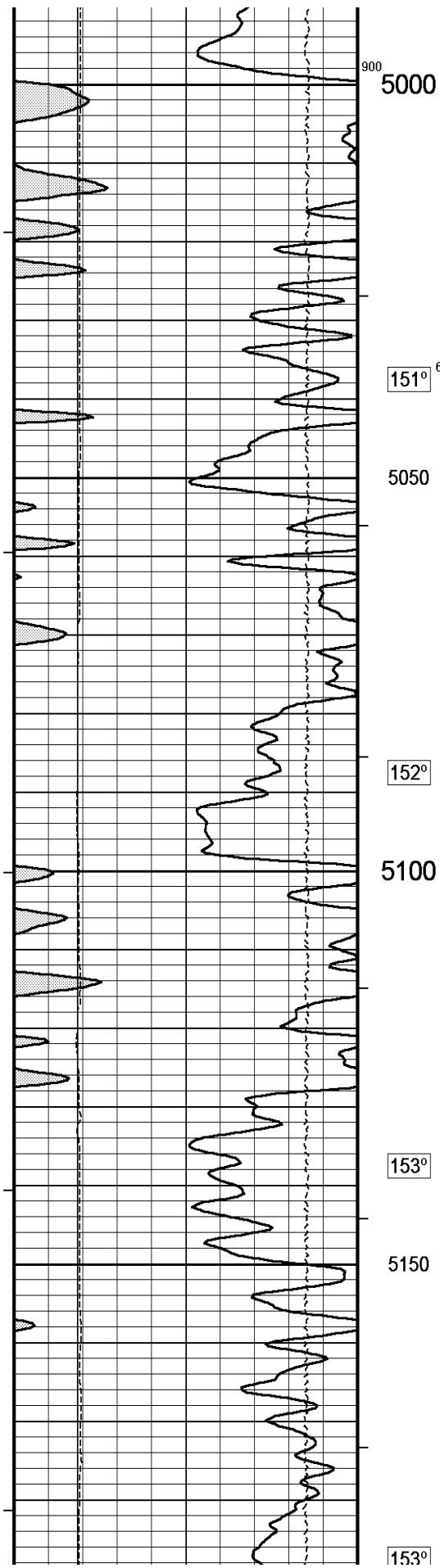
Bit Size →

Density Caliper →

Bit Size →

Density Caliper →

← DST



900

5000

151°

600

5050

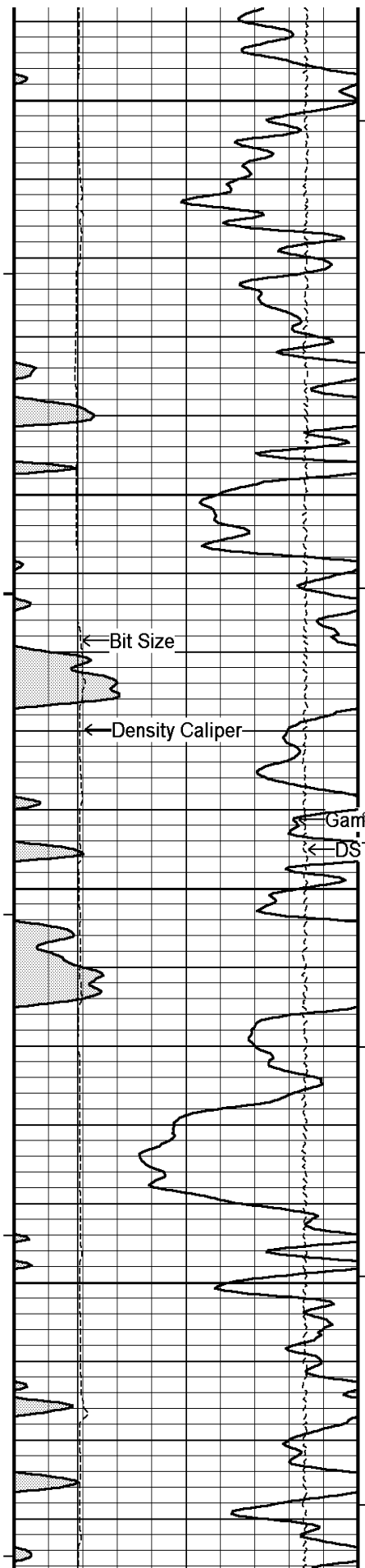
152°

5100

153°

5150

153°



5200

154°

5250

← Bit Size

← Density Caliper

155°

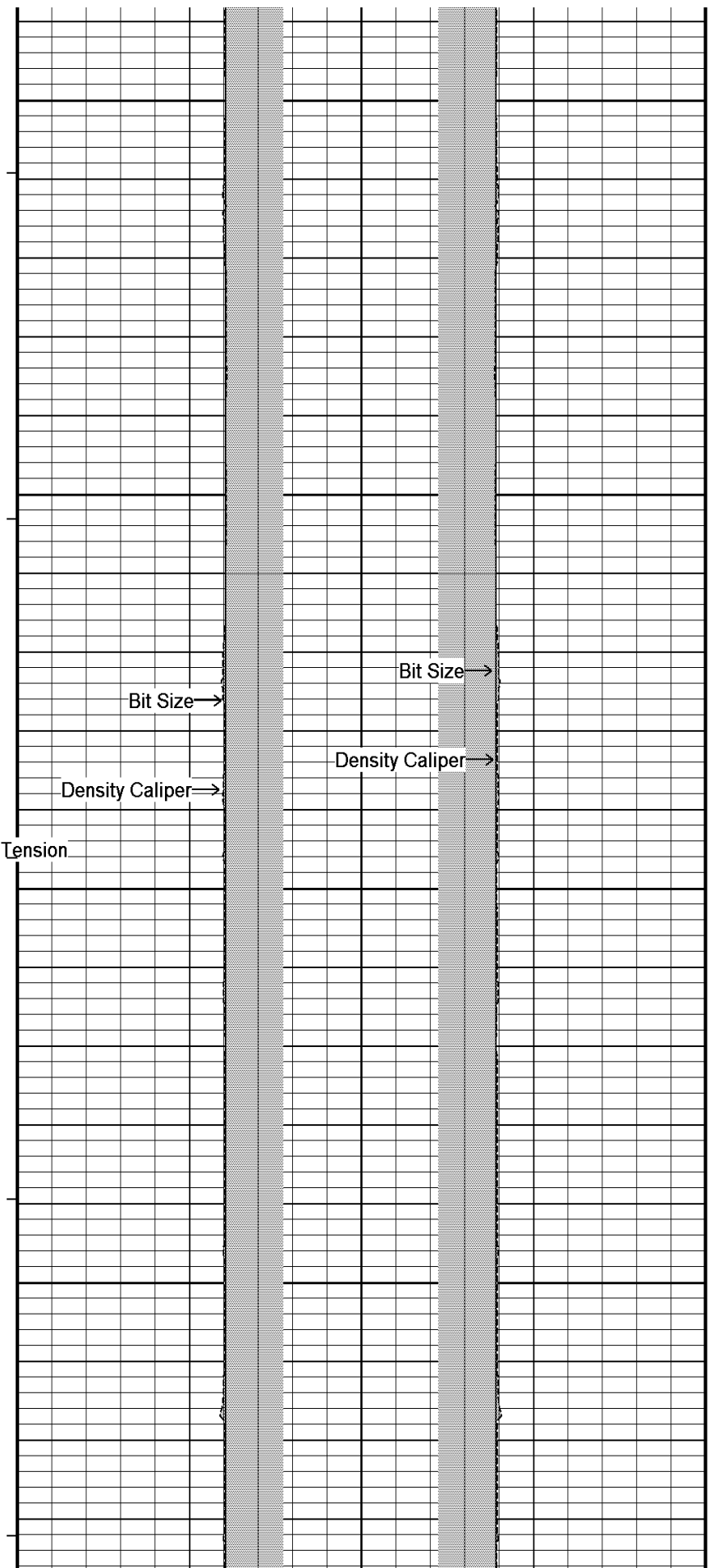
← Gamma Ray

← DST Uphole Tension

5300

155°

5350

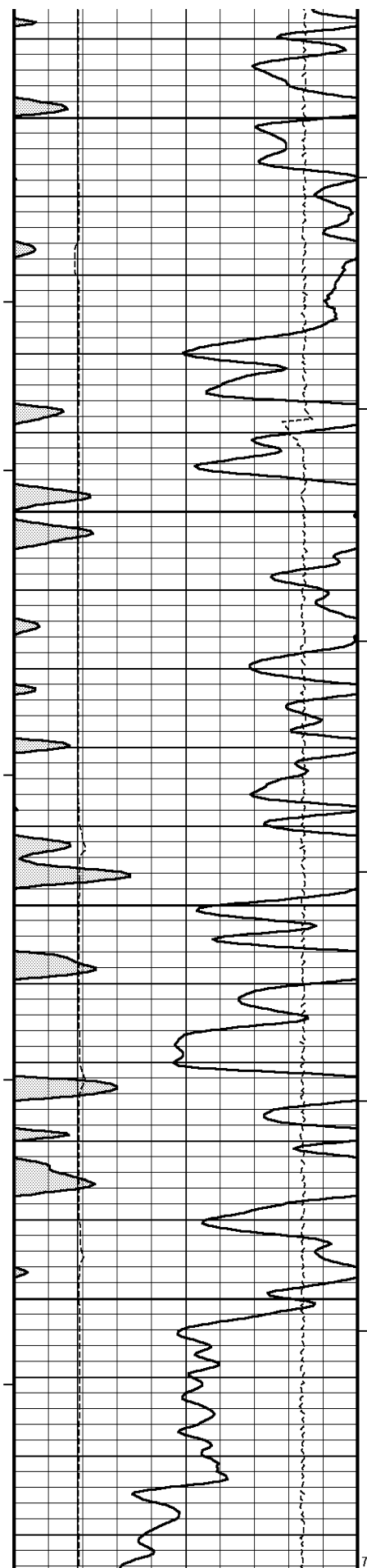


Bit Size →

Density Caliper →

Bit Size →

Density Caliper →



156°

5400

157°

5450

500

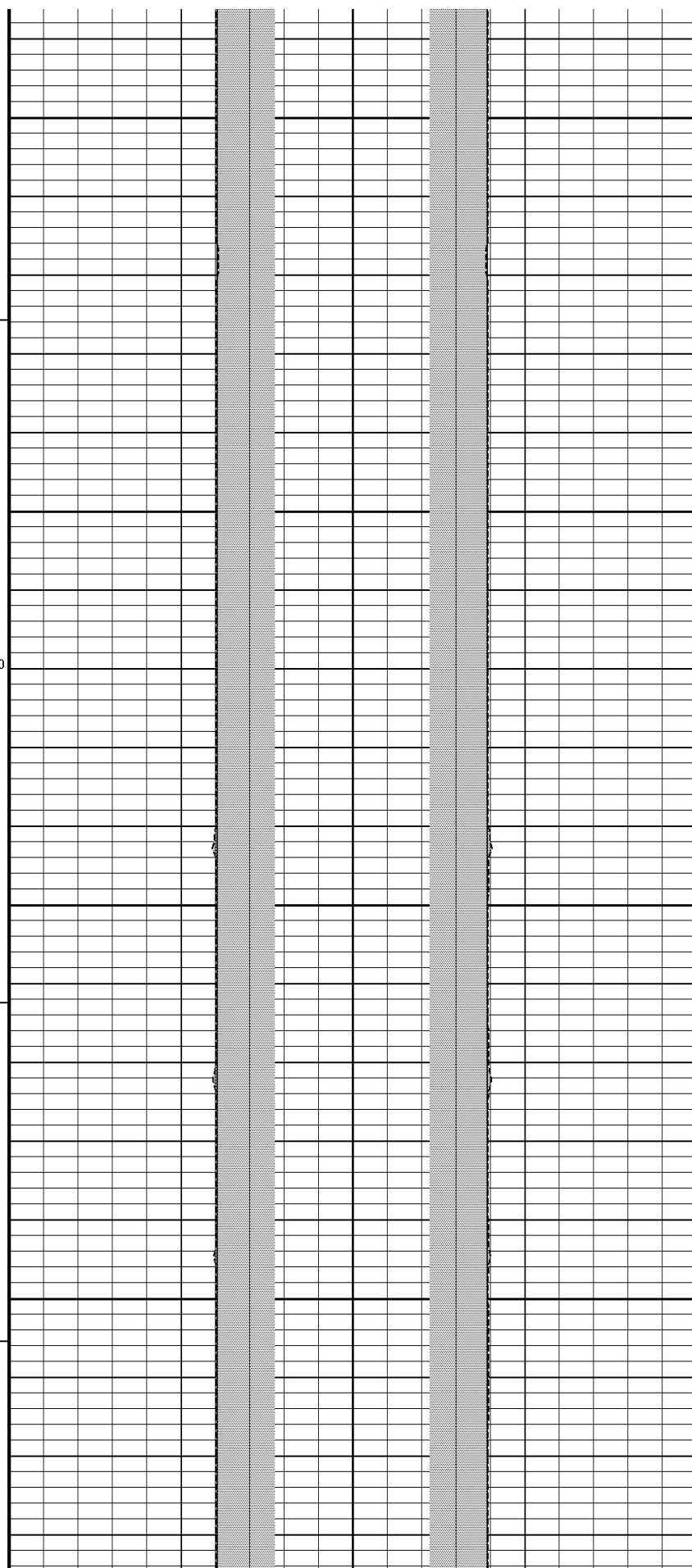
157°

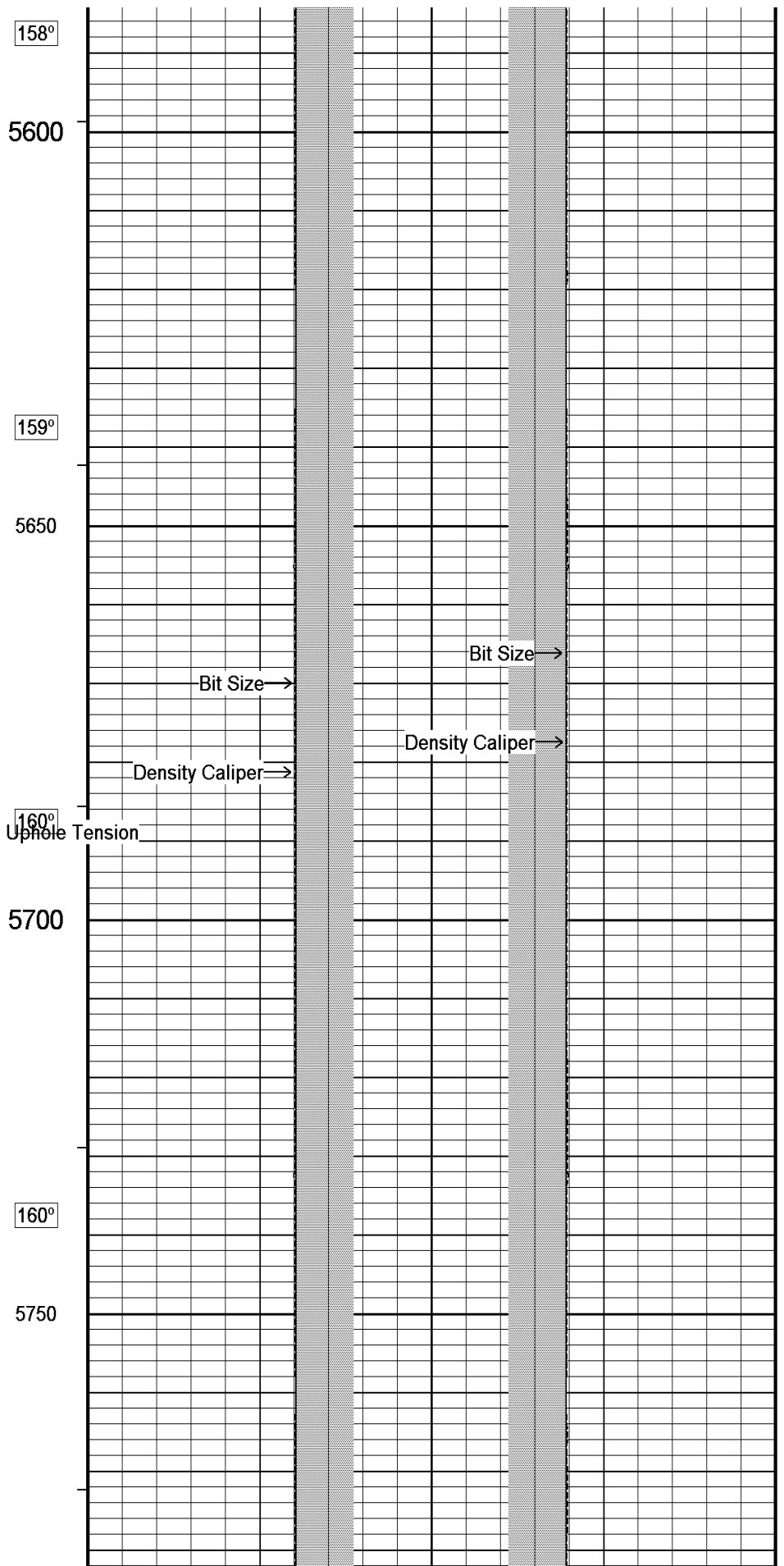
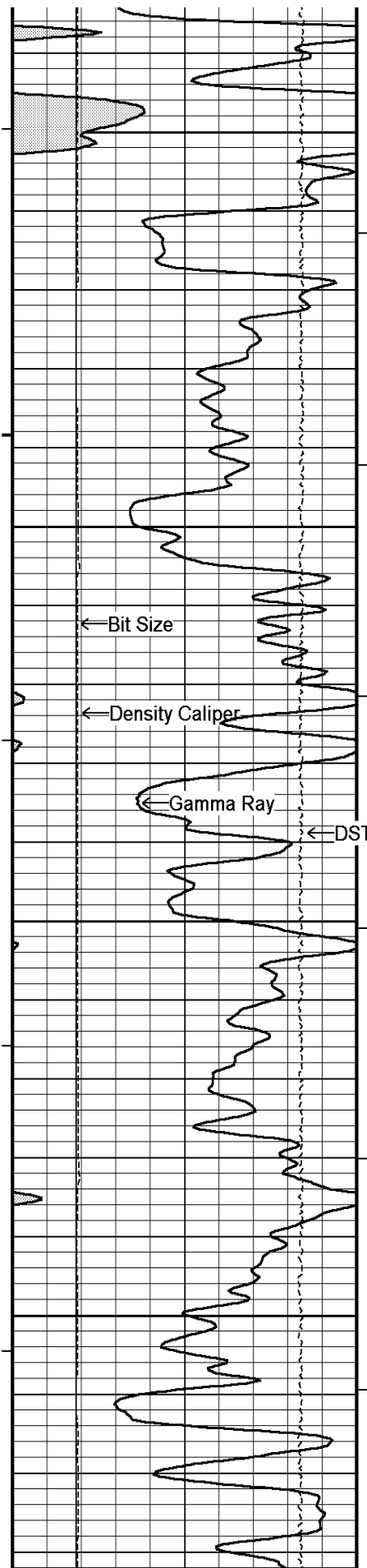
5500

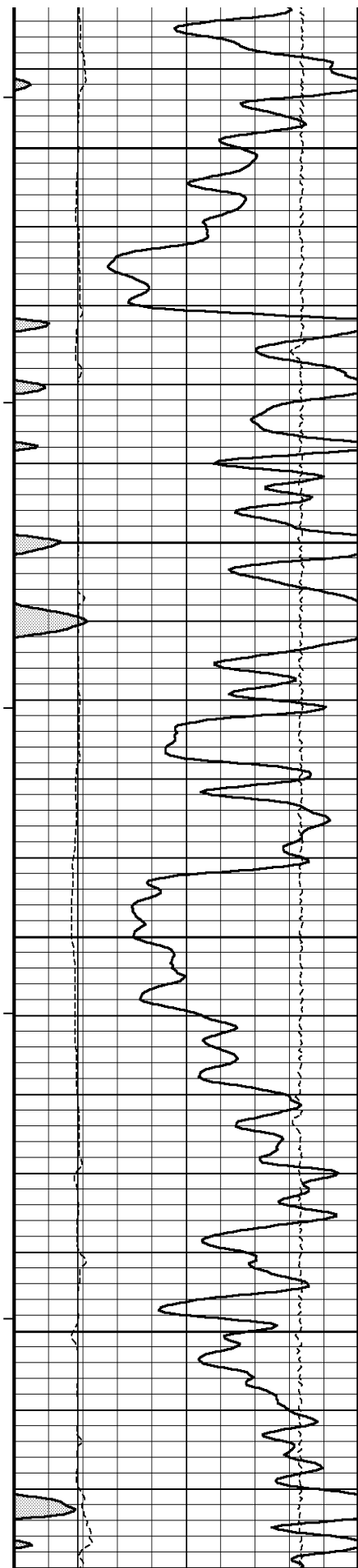
158°

5550

700







161°

5800

161°

5850

600

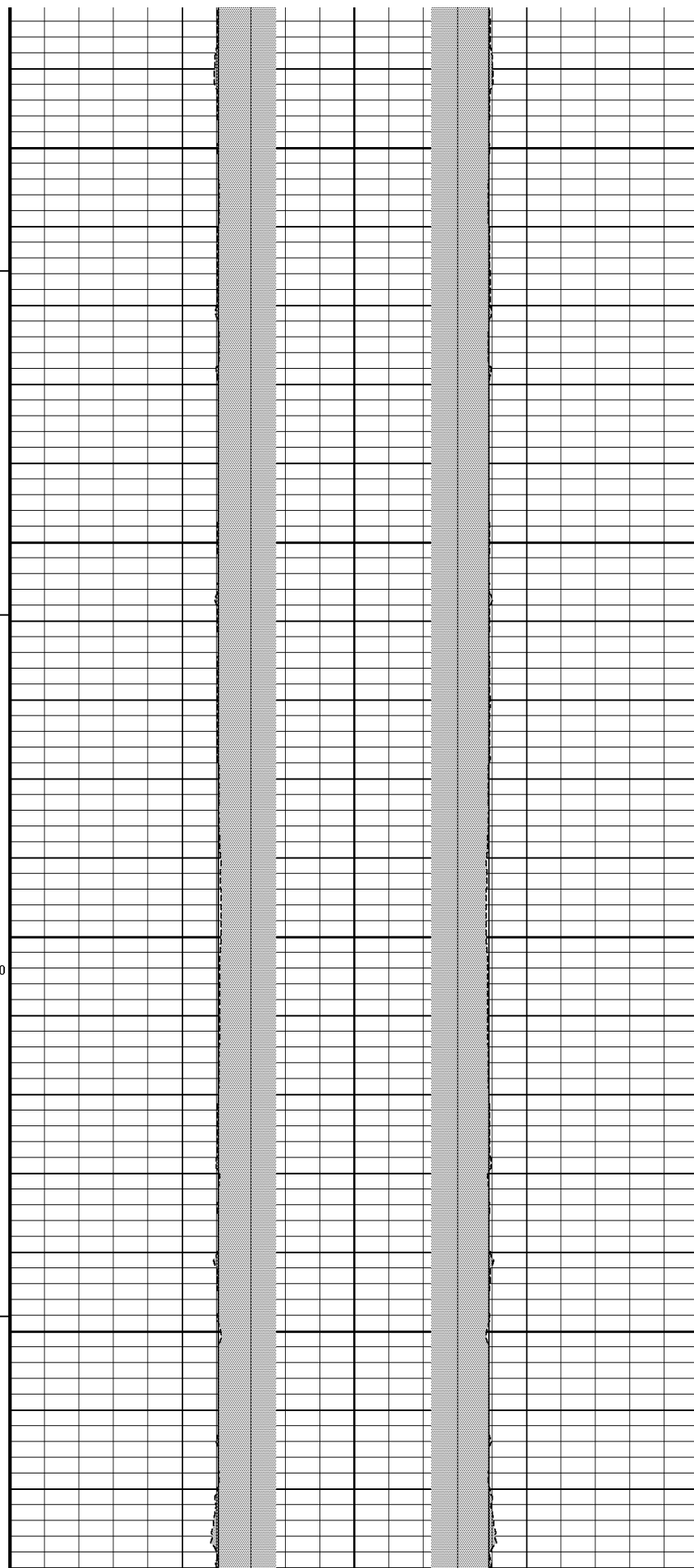
162°

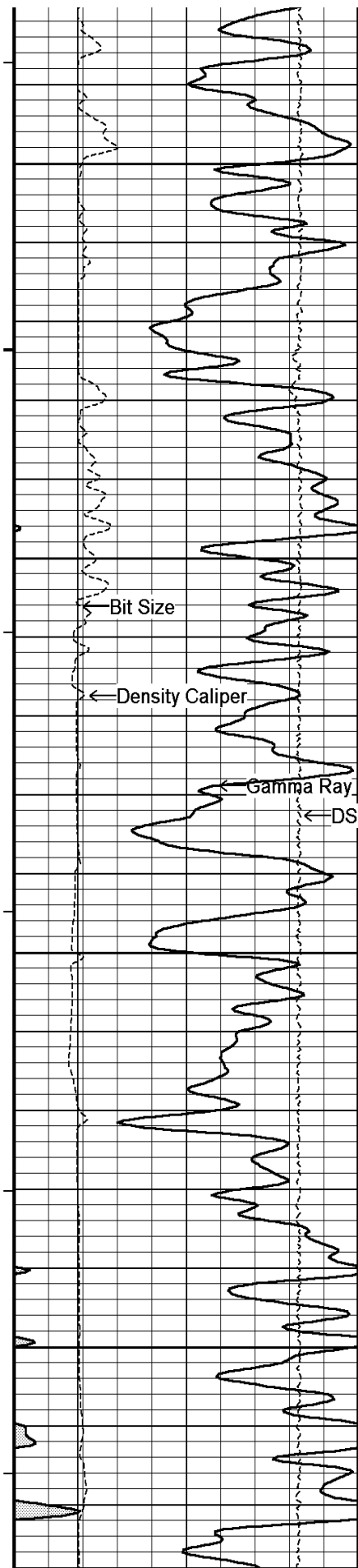
5900

400

163°

5950





163°

6000

164°

6050

Bit Size

Density Caliper

Gamma Ray

DST Uphole Tension

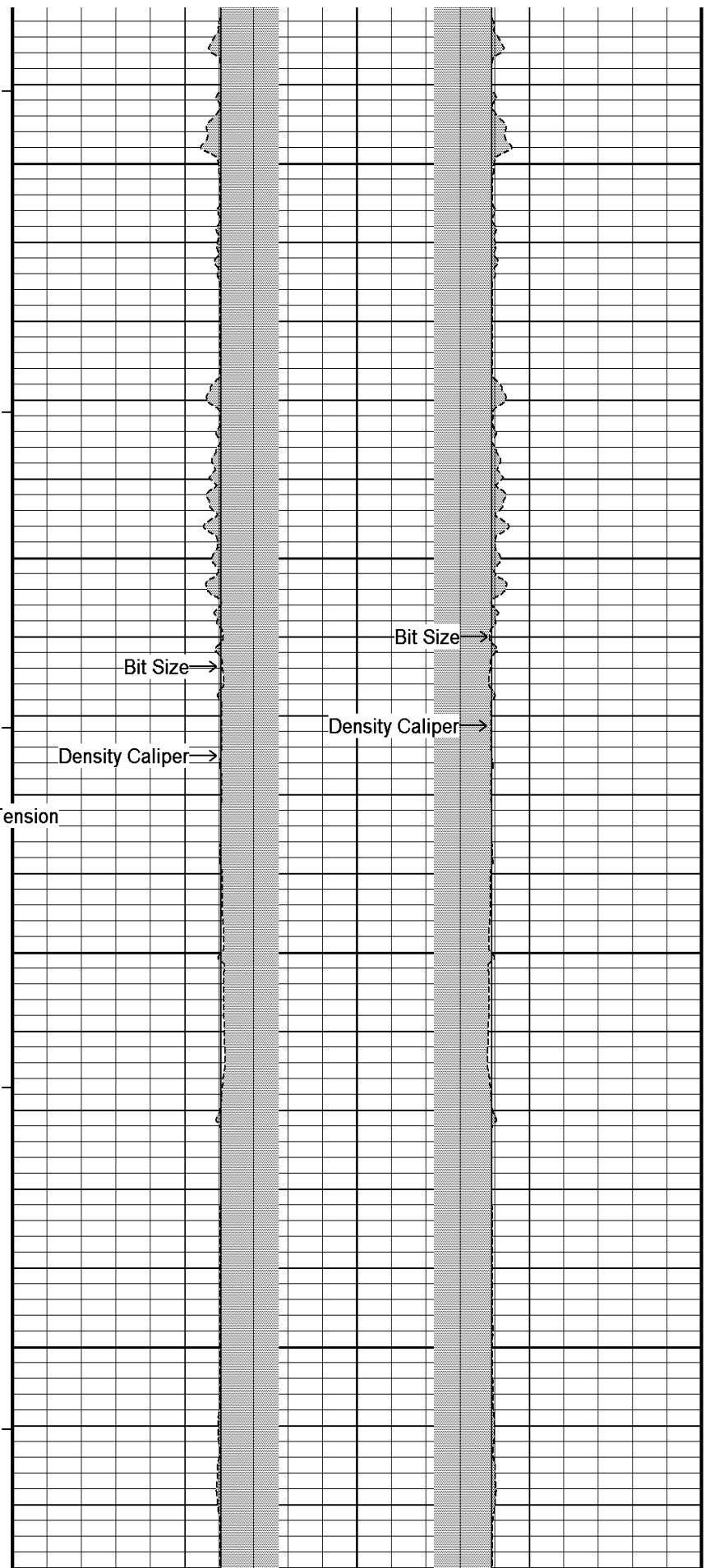
165°

6100

166°

6150

500

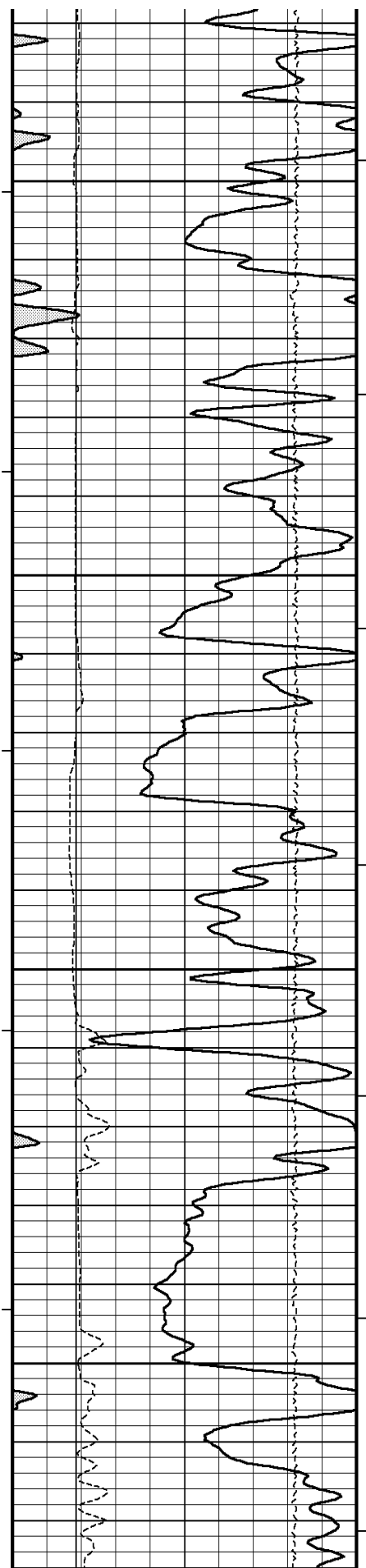


Bit Size

Density Caliper

Bit Size

Density Caliper



166°

6200

167°

6250

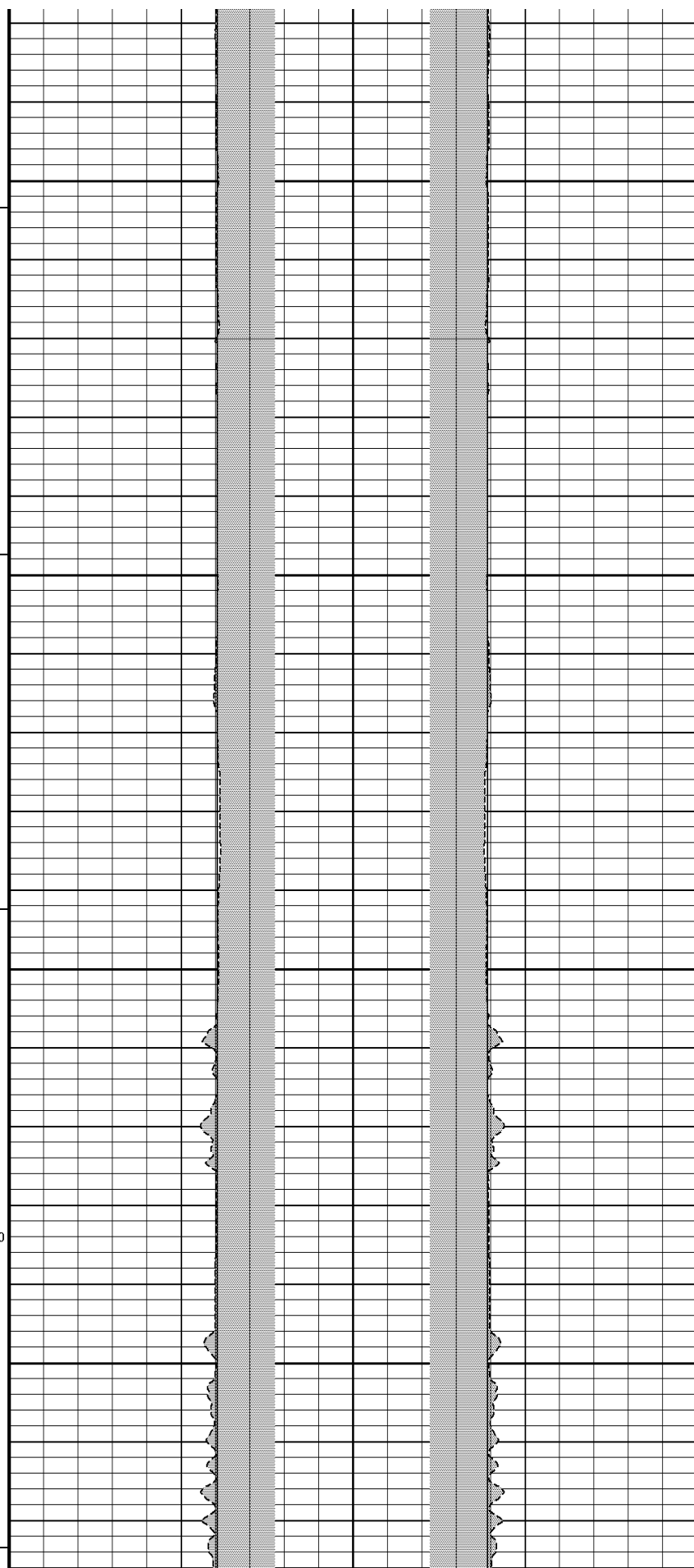
168°

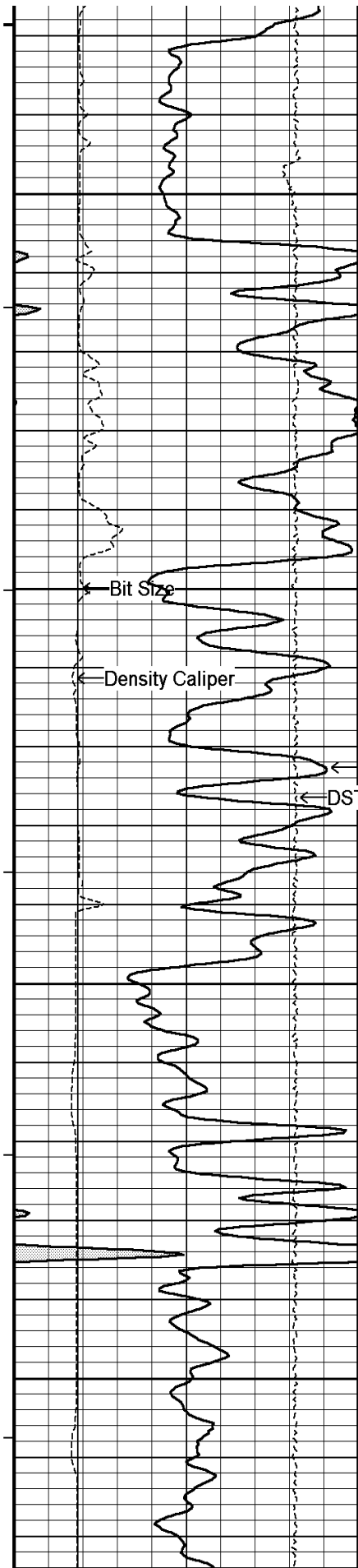
6300

169°

6350

300





169°

6400

170°

6450

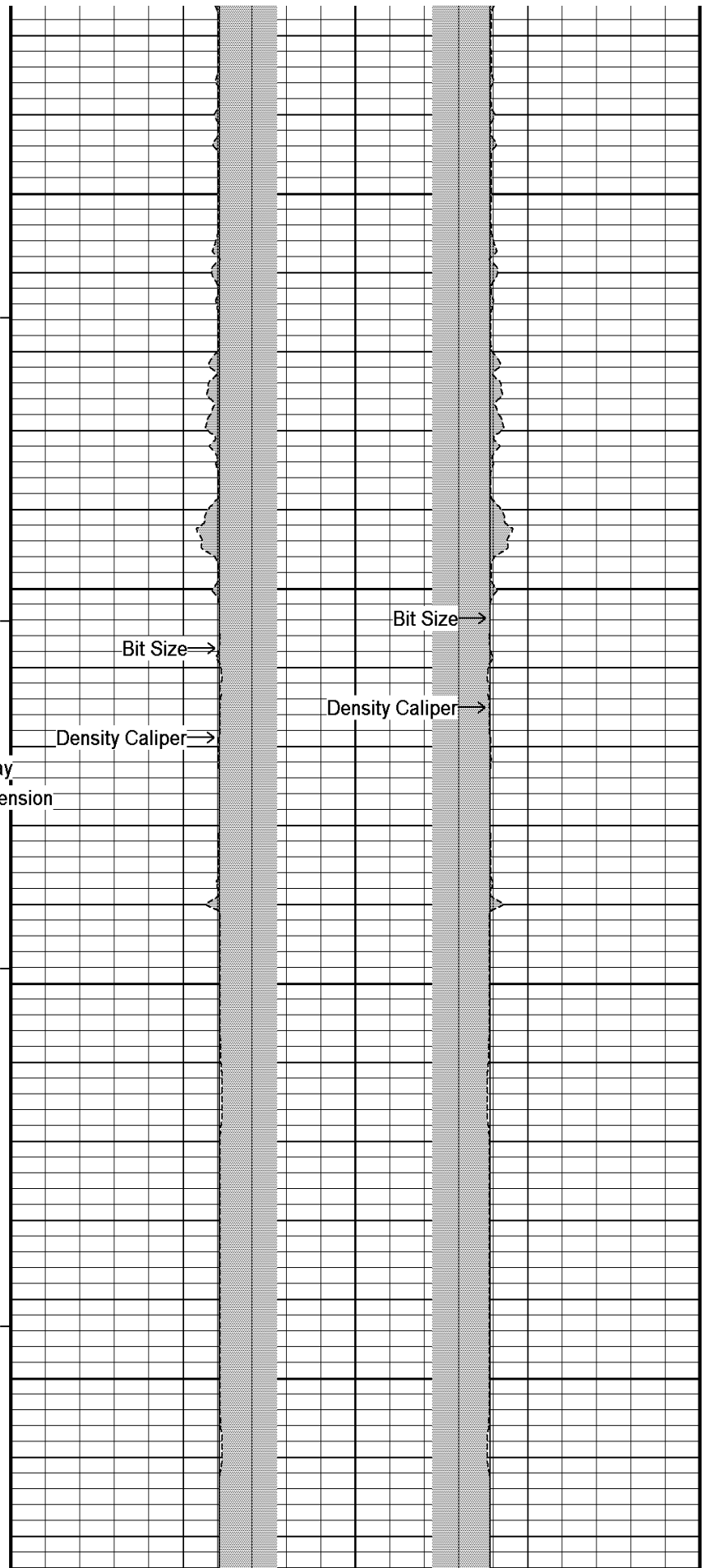
400

172°

6500

172°

6550

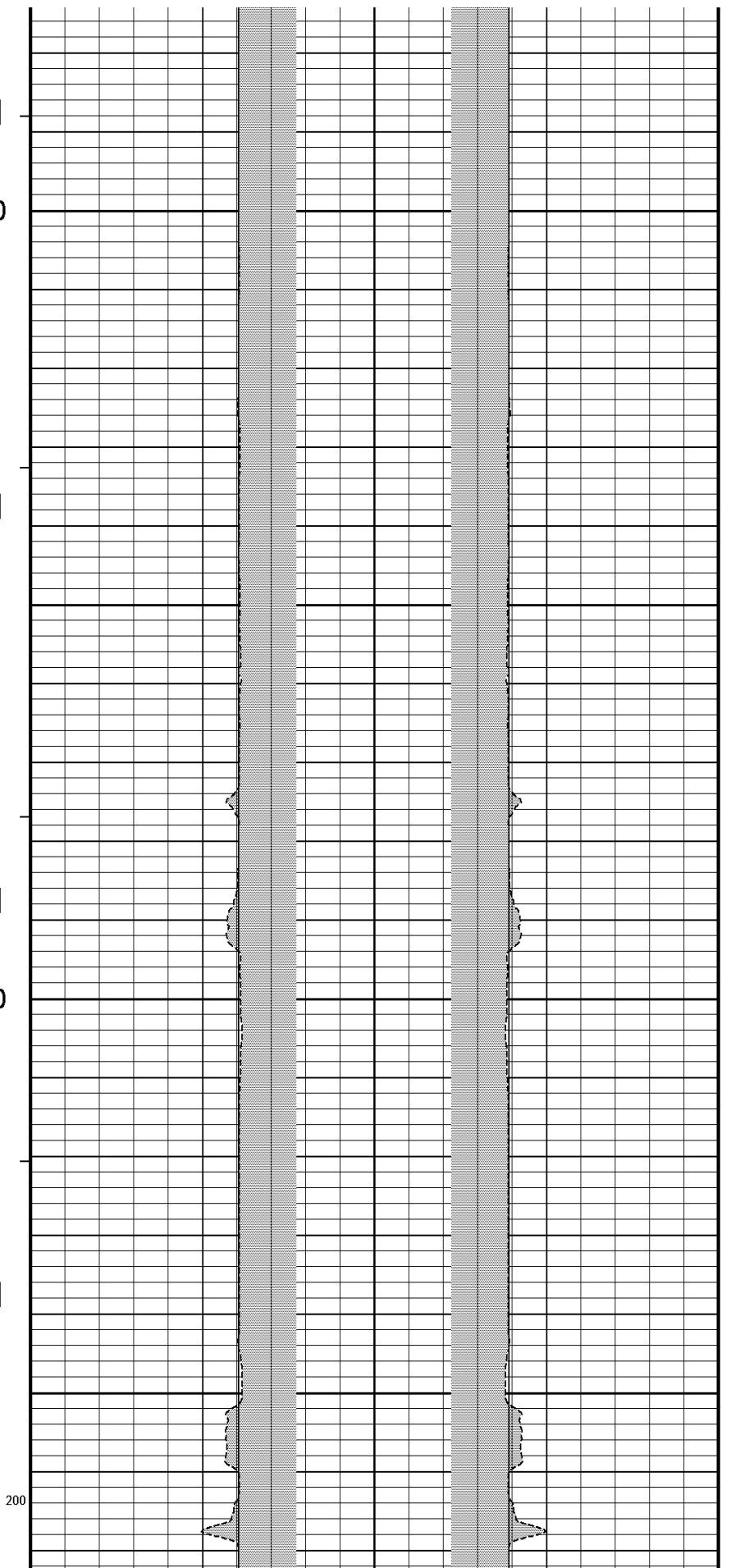
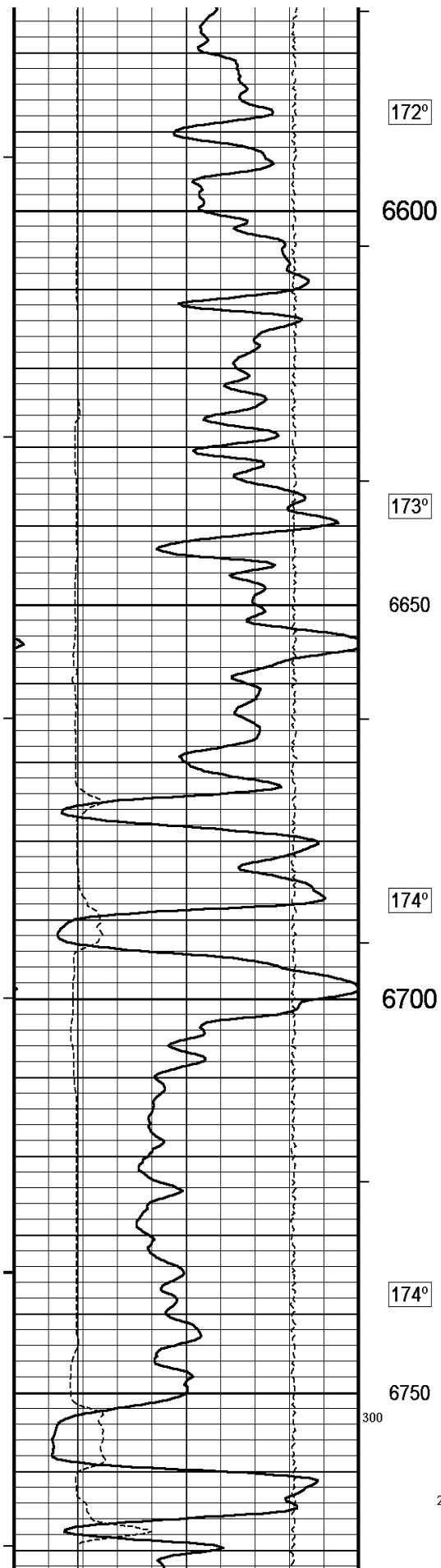


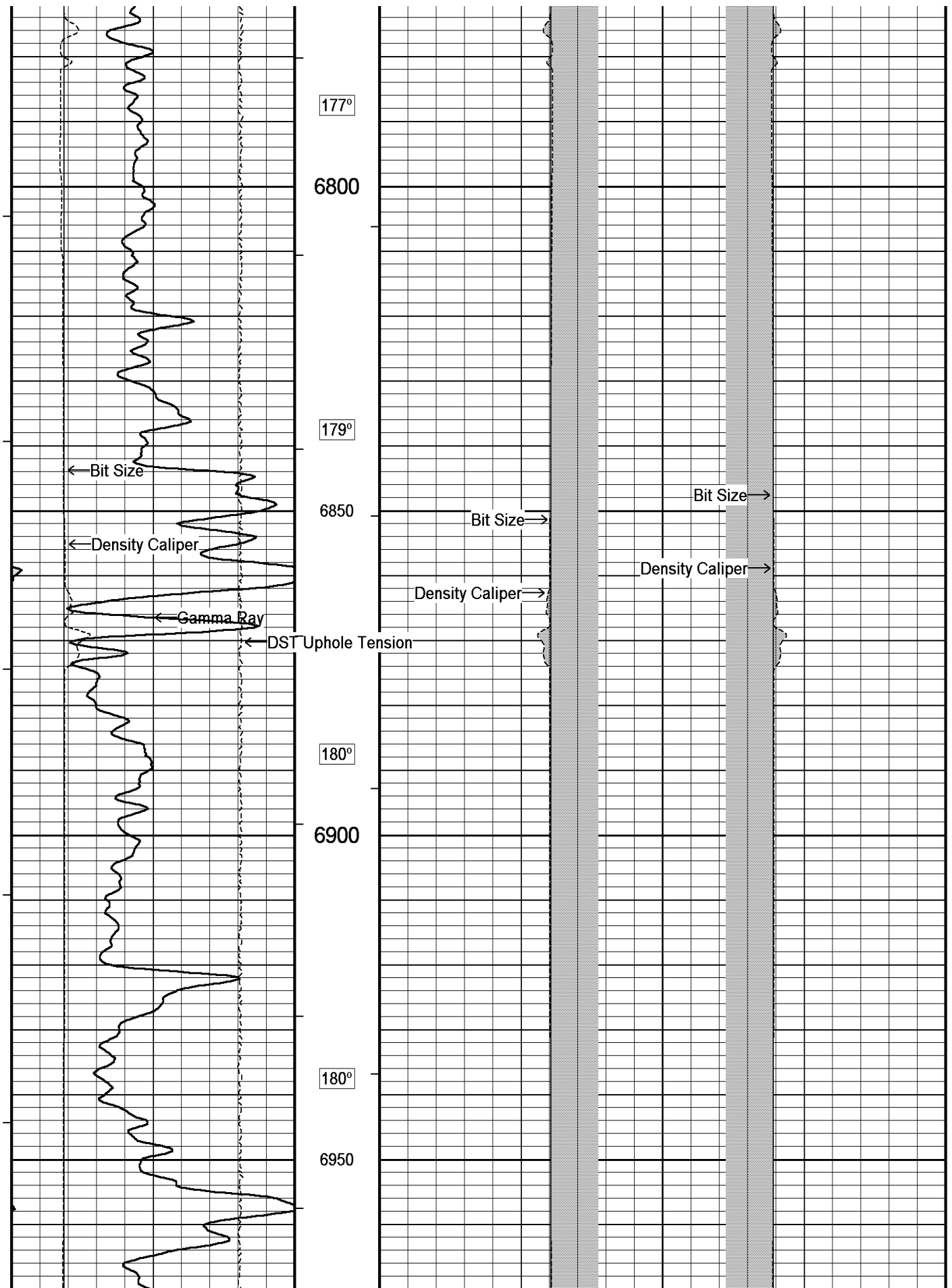
Bit Size →

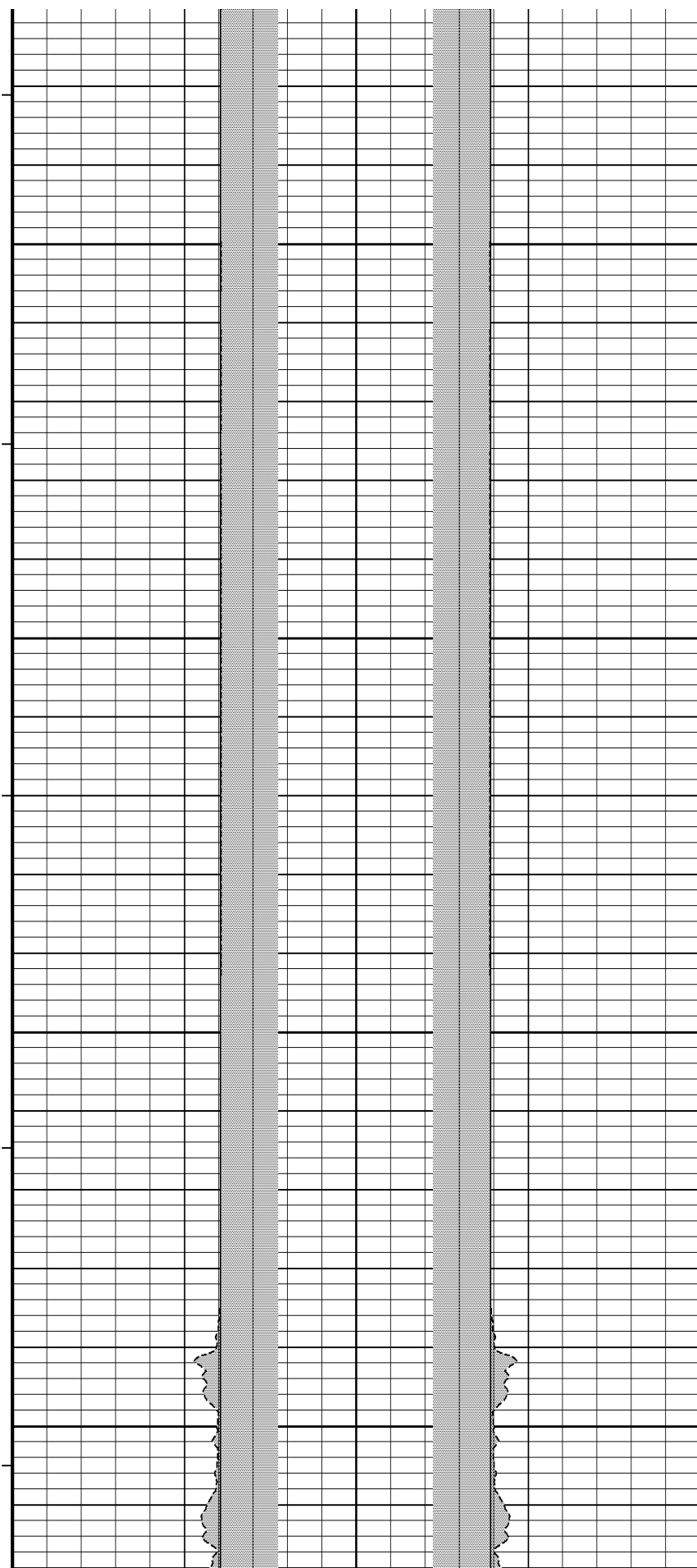
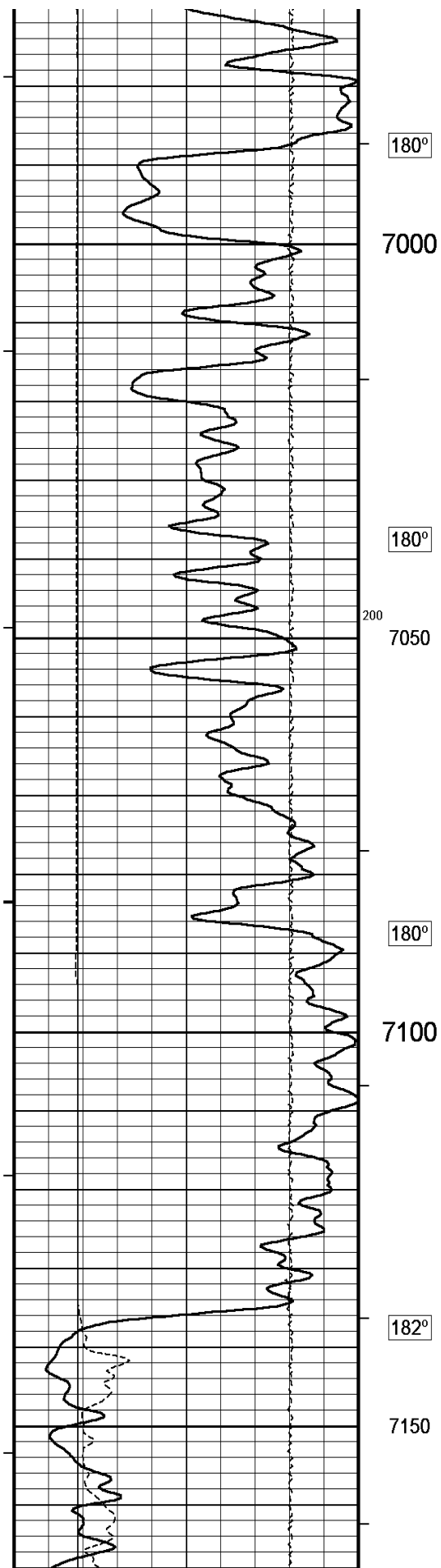
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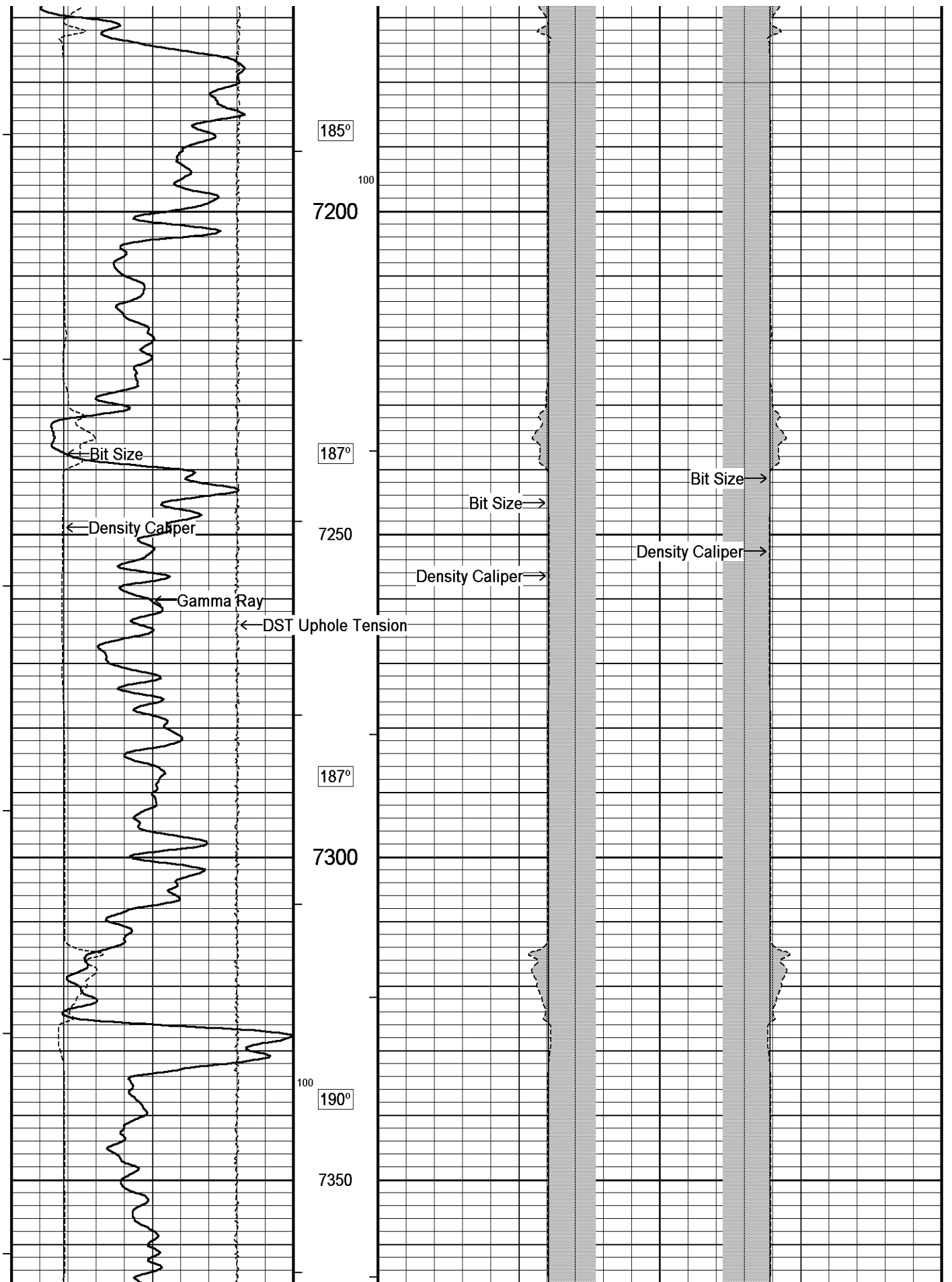
Density Caliper →

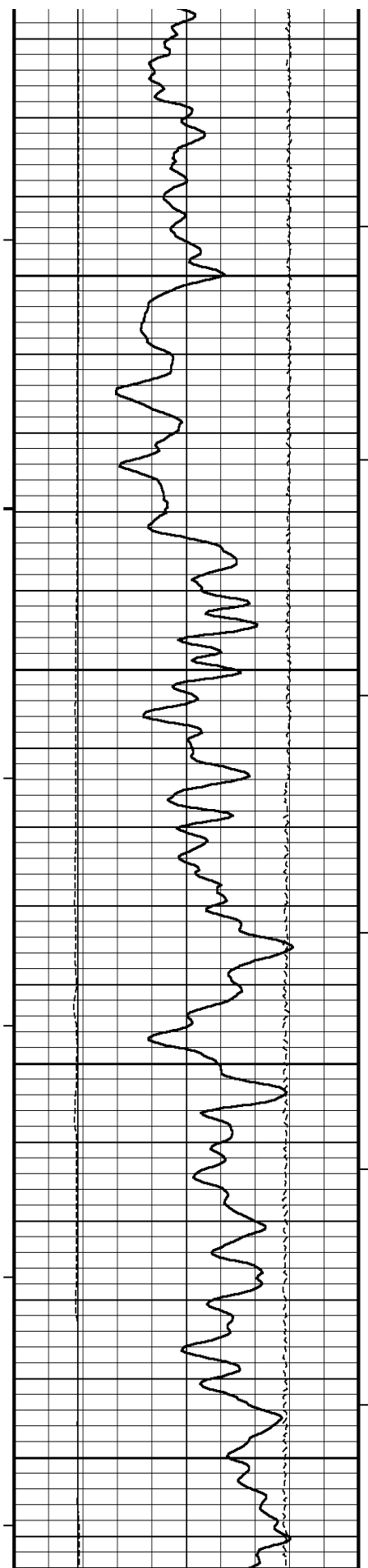
Density Caliper →











192°

7400

188°

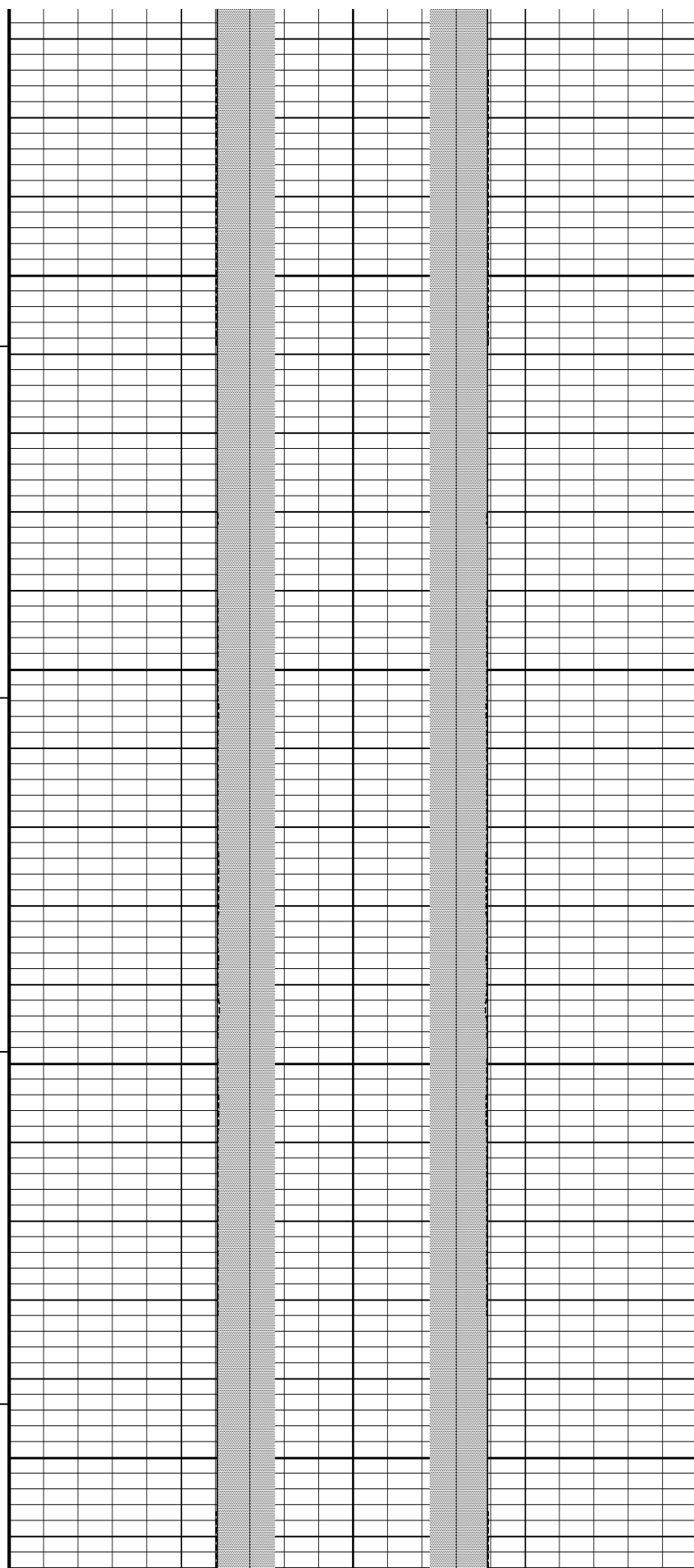
7450

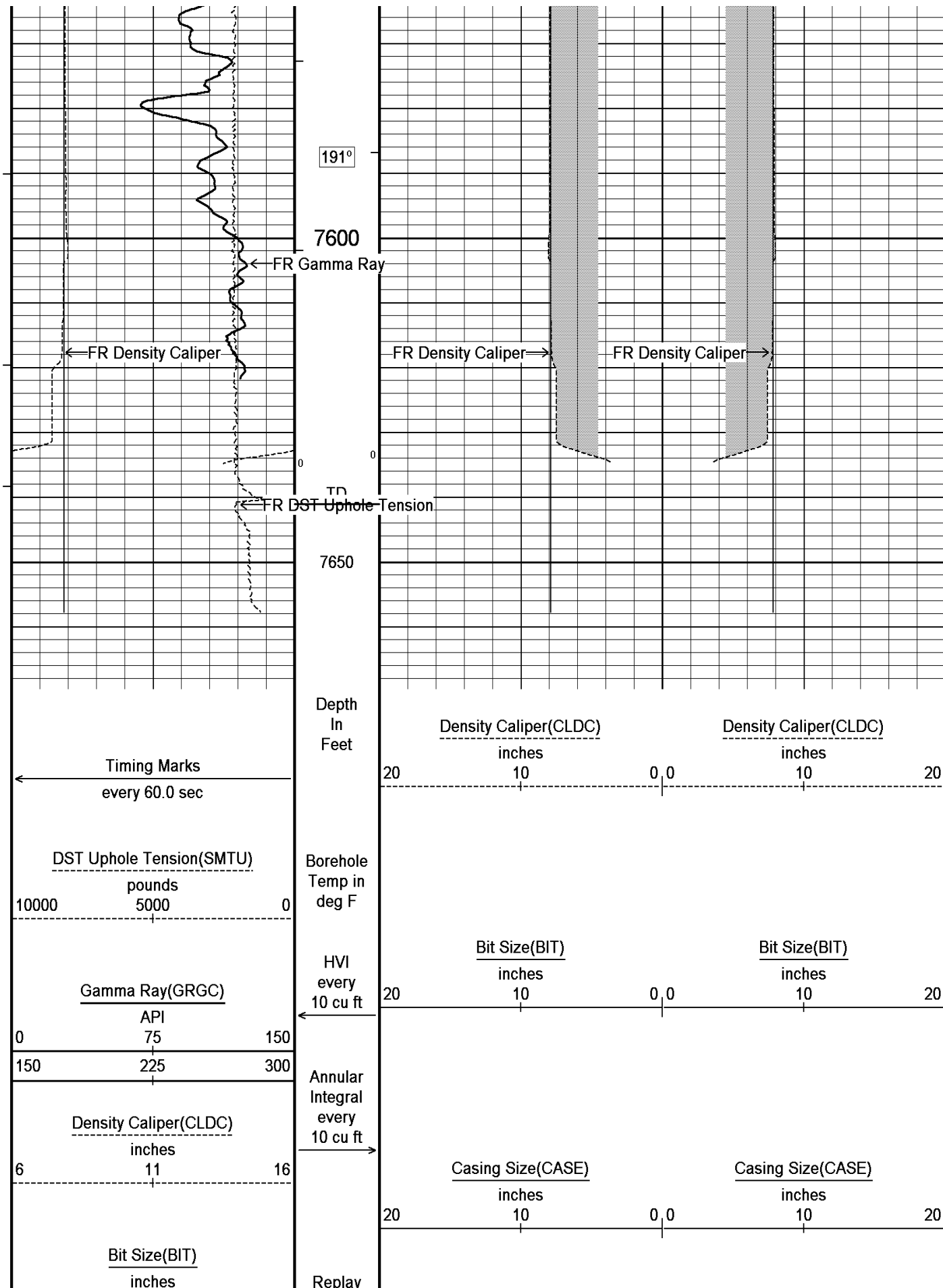
189°

7500

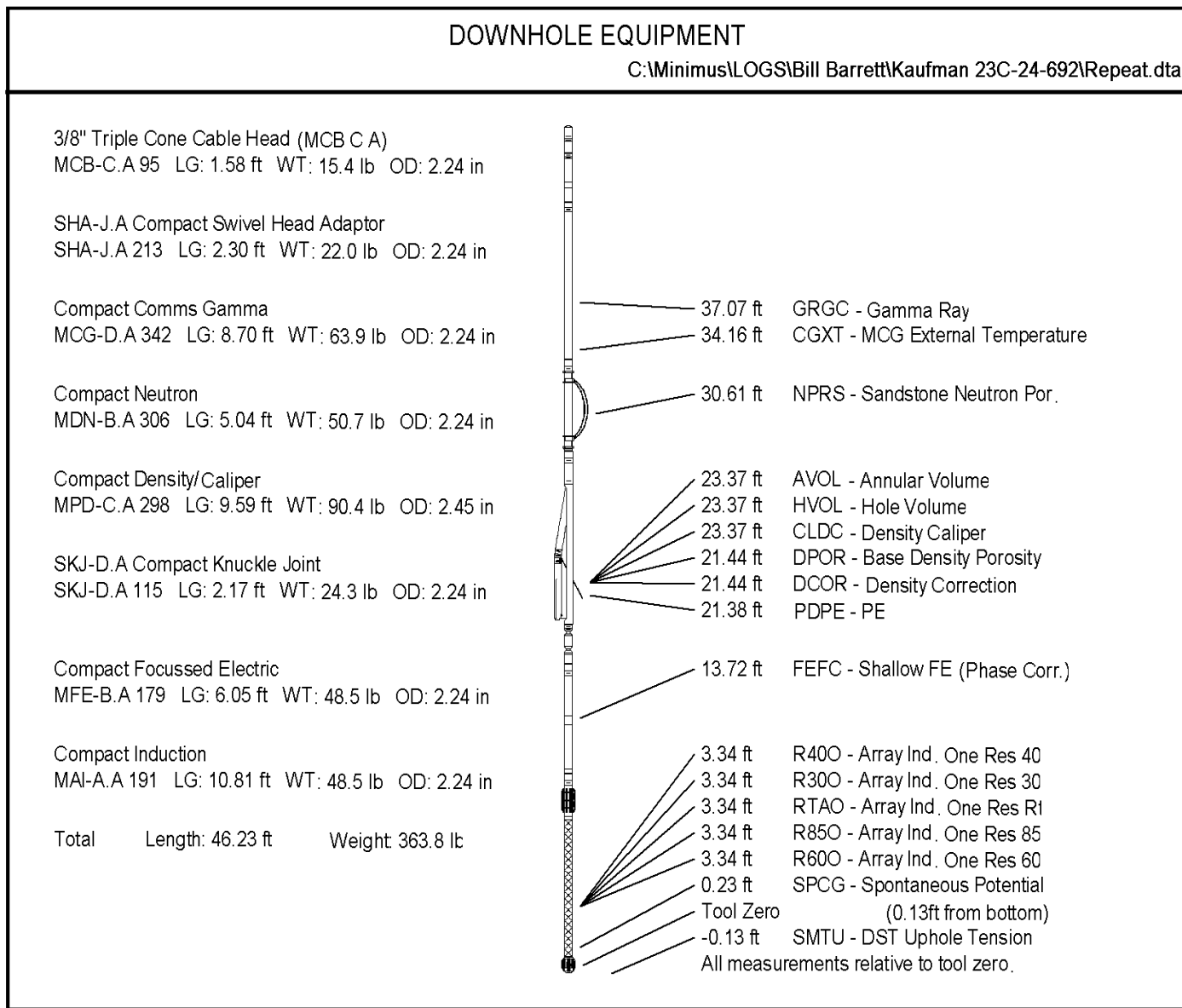
190°

7550





6	11	16	Scale 1:240
Depth Based Data - Maximum Sampling Increment 10.0cm Filename: C:\Minimus\LOGS\Bill Barrett\Kaufman 23C-24-692\SPLICE3.dta System Versions: Processed with 11.03.4044 Plotted with 11.03.4044			Plotted on 02-AUG-2011 05:15 Recorded on 01-AUG-2011 23:52
↑ 5 INCH MAIN LOG ↑			



COMPANY	BILL BARRETT CORPORATION			
WELL	KAUFMAN 23C-24-692			
FIELD	MAMM CREEK			
PROVINCE/COUNTY	GARFIELD			
COUNTRY/STATE	U.S.A. / COLORADO			
Elevation Kelly Bushing	5866.00	feet	First Reading	7618.00
Elevation Drill Floor	5866.00	feet	Depth Driller	7633.00 feet
Elevation Ground Level	5844.00	feet	Depth Logger	7641.00 feet



Weatherford®

HOLE VOLUME
CALIPER LOG

