

**Weatherford**<sup>®</sup>**HOLE VOLUME  
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**  
WELL **KAUFMAN 12A-25-692**  
FIELD **MAMM CREEK**  
PROVINCE/COUNTY **GARFIELD**  
COUNTRY/STATE **U.S.A. / COLORADO**  
LOCATION **SHL: 2184' FSL & 1617' FWL**  
**BHL: 2490' FNL & 620' FWL**



SEC **25** TWP **6S** RGE **92W** Other Services  
MPD/MDN  
MAI/MFE  
API Number **05-045-19656**  
Permit Number

Permanent Datum G.L., Elevation 5922 feet  
Log Measured From KB above Permanent Datum  
Drilling Measured From K.B. @ 23 FT.

Elevations: feet  
KB 5945.00  
DF 5944.00  
GL 5922.00

Date	03-JULY-2011		
Run Number	ONE		
Depth Driller	7602.00	feet	
Depth Logger	7596.00	feet	
First Reading	7573.00		
Last Reading	809.00		
Casing Driller	810.00	feet	
Casing Logger	809.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.50 lb/USg	48.00 CP	
PH / Fluid Loss	9.80	6.40 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	2.55 @123.0	ohm-m	
Rmf @ Measured Temp	2.04 @123.0	ohm-m	
Rmc @ Measured Temp	3.06 @123.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.607 @197.0	ohm-m	
Time Since Circulation	8 HOURS		
Max Recorded Temp	197.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13045	GD JCT	
Recorded By	D. KUNTZ		
Witnessed By	C. CROWTON		

**BOREHOLE RECORD**

Last Edited: 03-JUL-2011 18:31

Bit Size inches	Depth From feet	Depth To feet
8.750	809.00	4726.00
7.880	4726.00	7602.00

**CASING RECORD**

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	809.00	36.00

**REMARKS**

LOGGING SOFTWARE USED: 11.03.3186

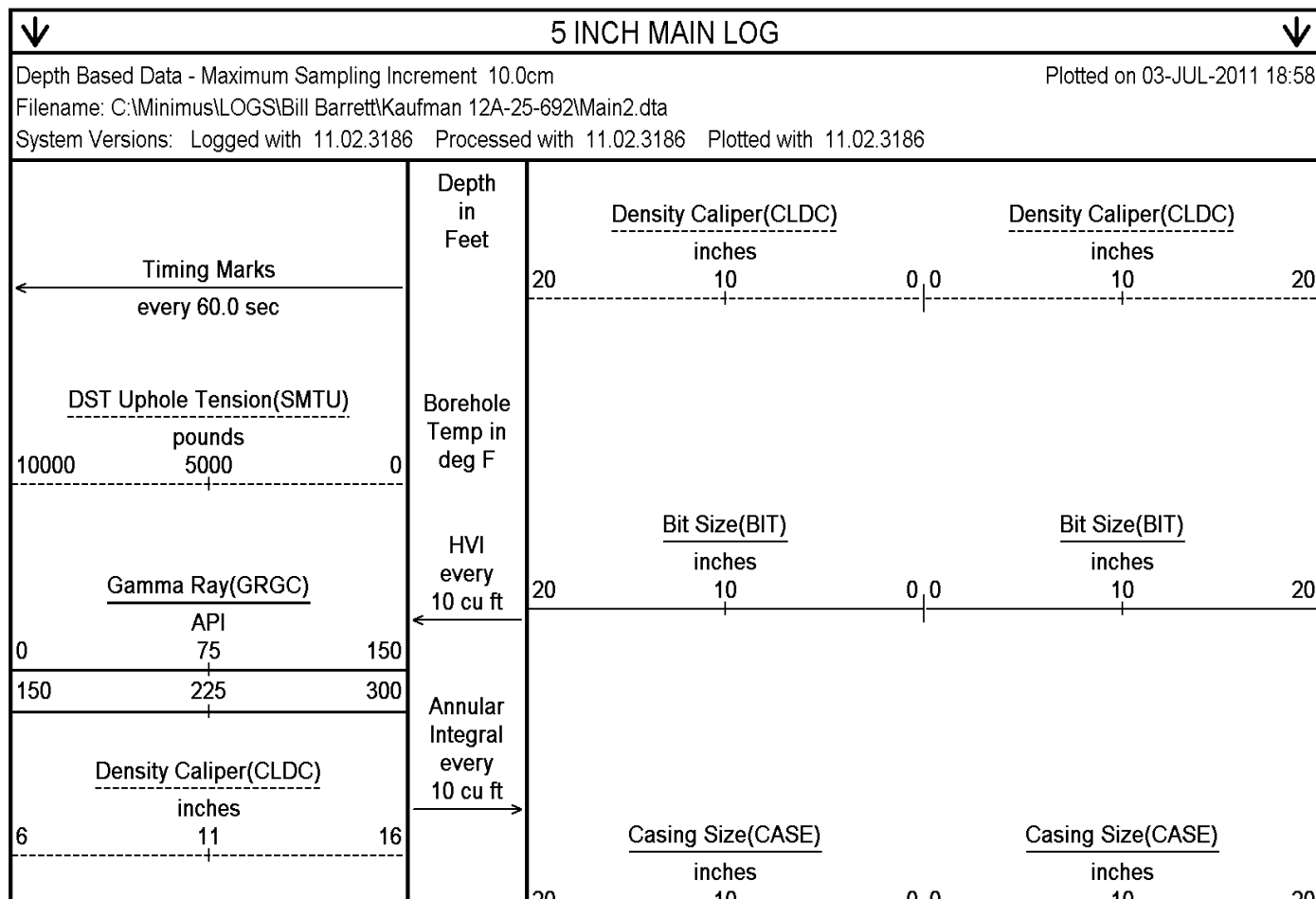
TOOLS: SHA,MCG, MDN, MPD, SKJ, MFE AND MAI RAN IN COMBINATION.

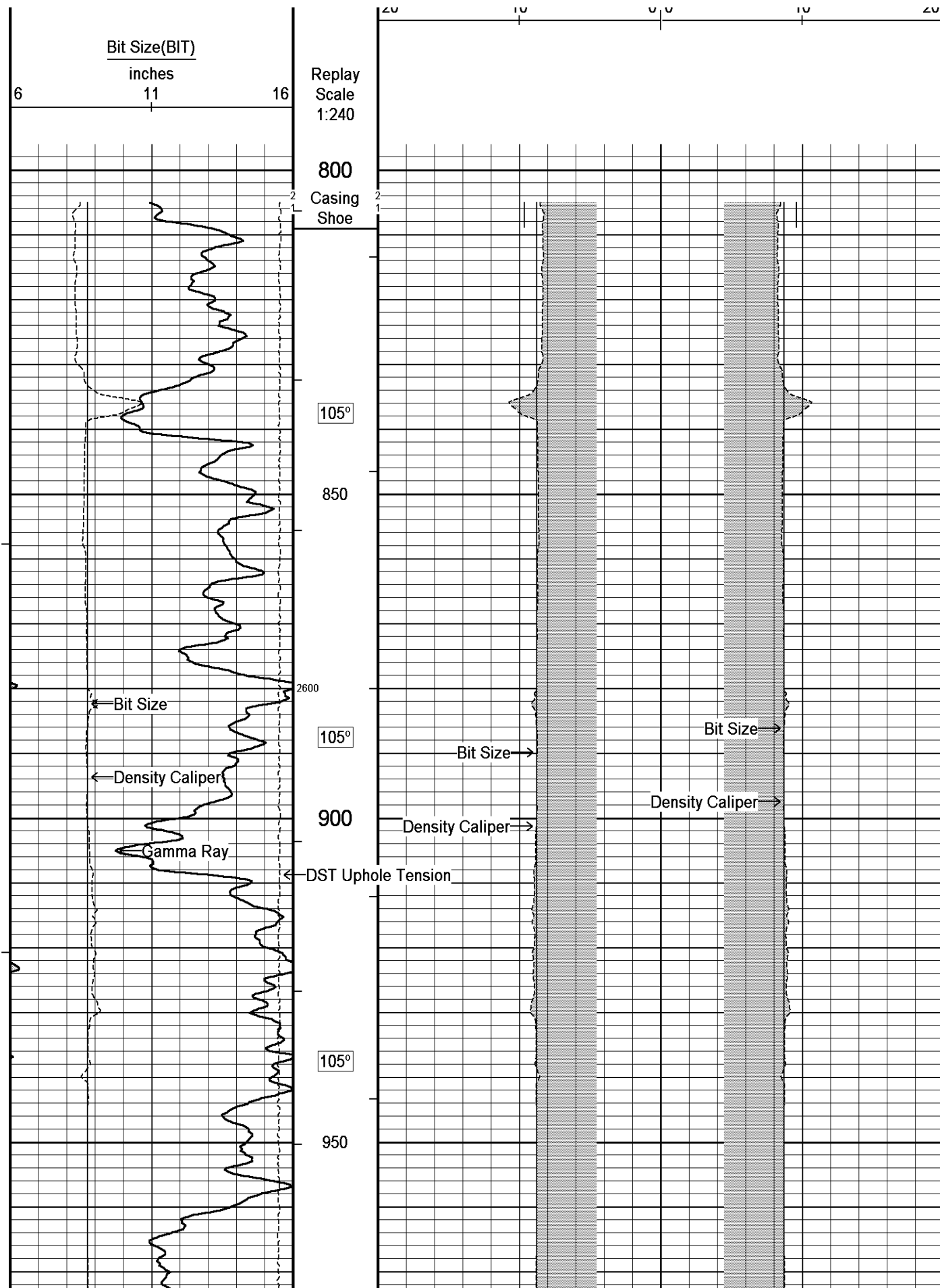
HARDWARE: MPD: 8 INCH PROFILE PLATE USED.  
TWO 0.5 INCH STANDOFFS USED ON INDUCTION.  
ONE 0.5 INCH STANDOFF USED ON MFE.  
DUAL BOWSPRING USED ON NEUTRON.

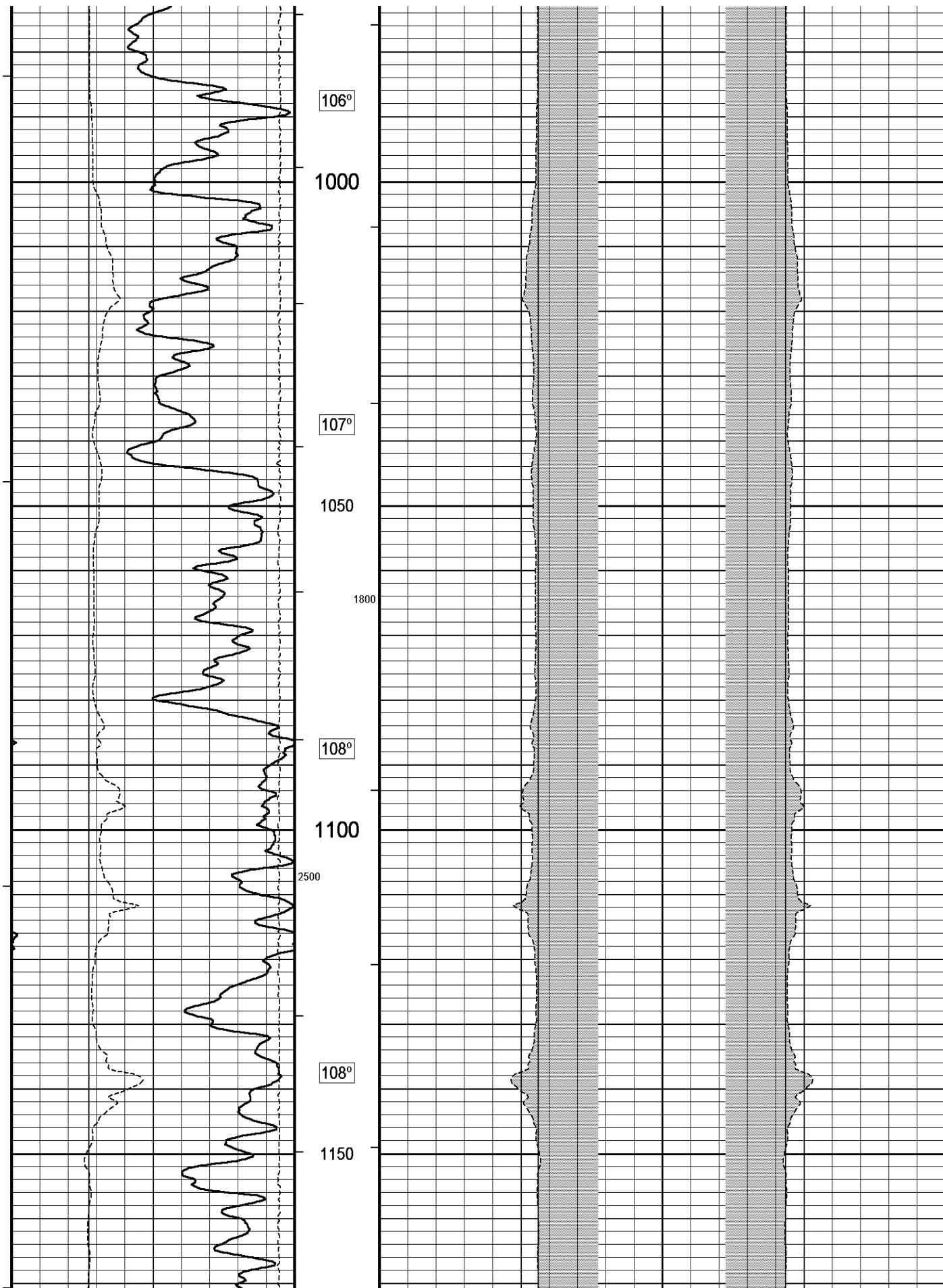
2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

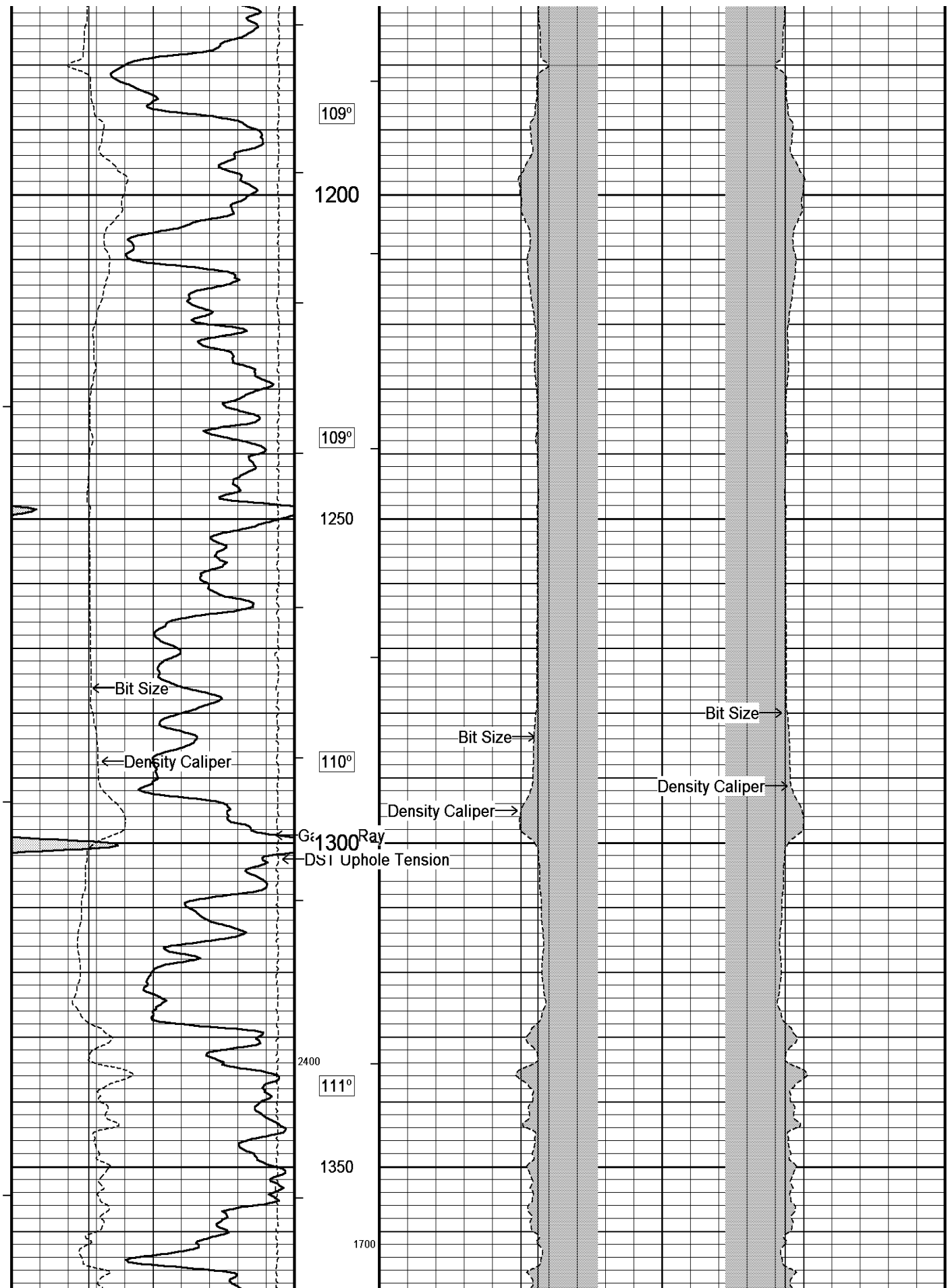
RIG: PATTERSON #307

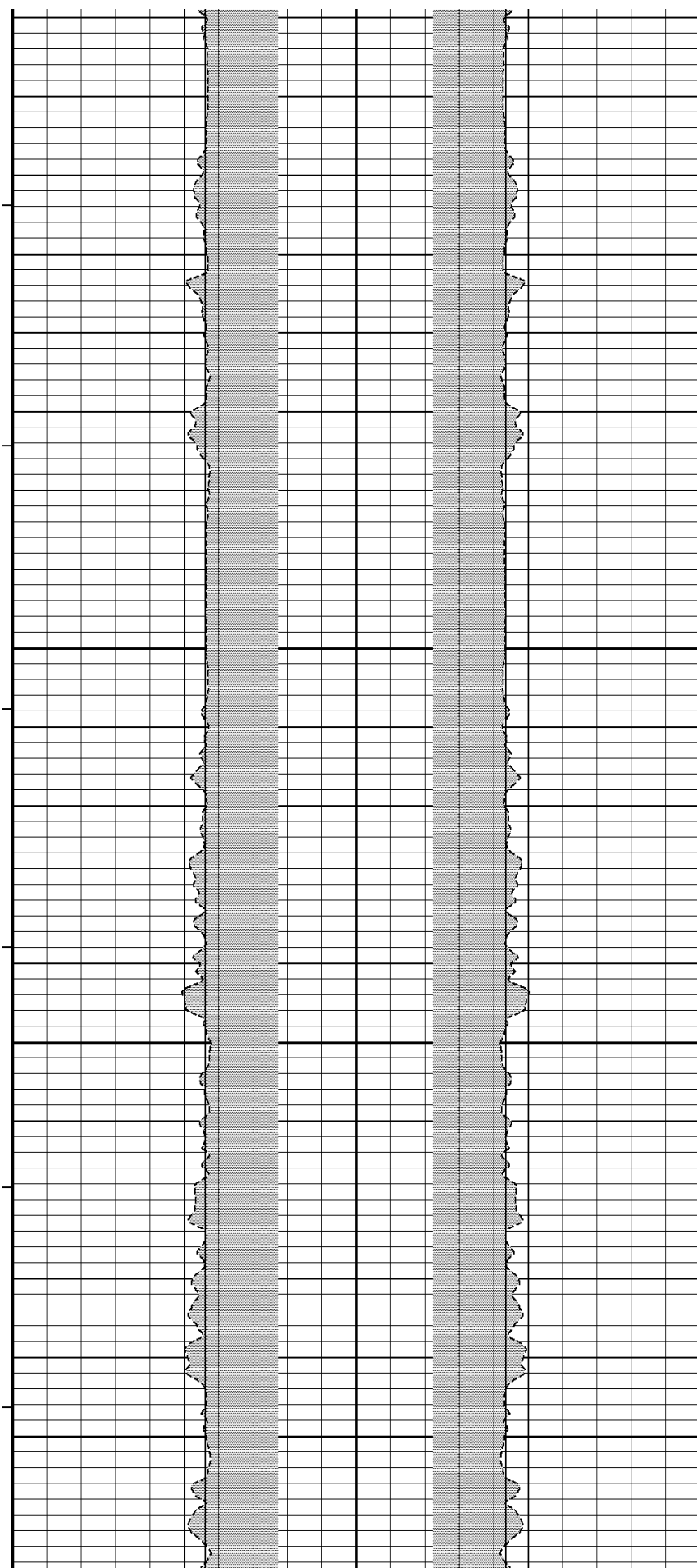
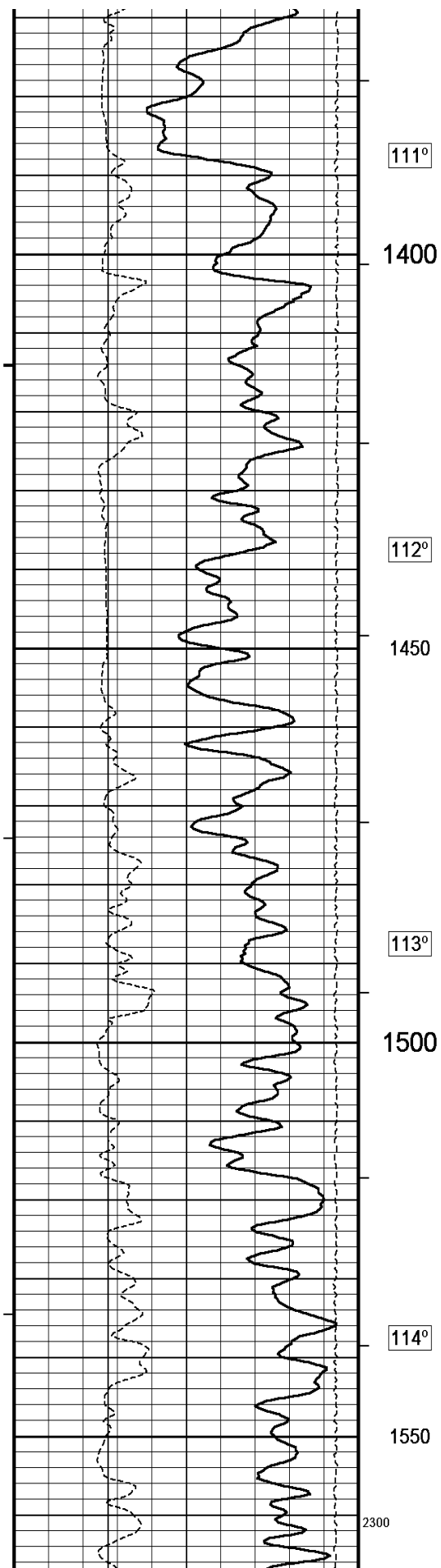
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

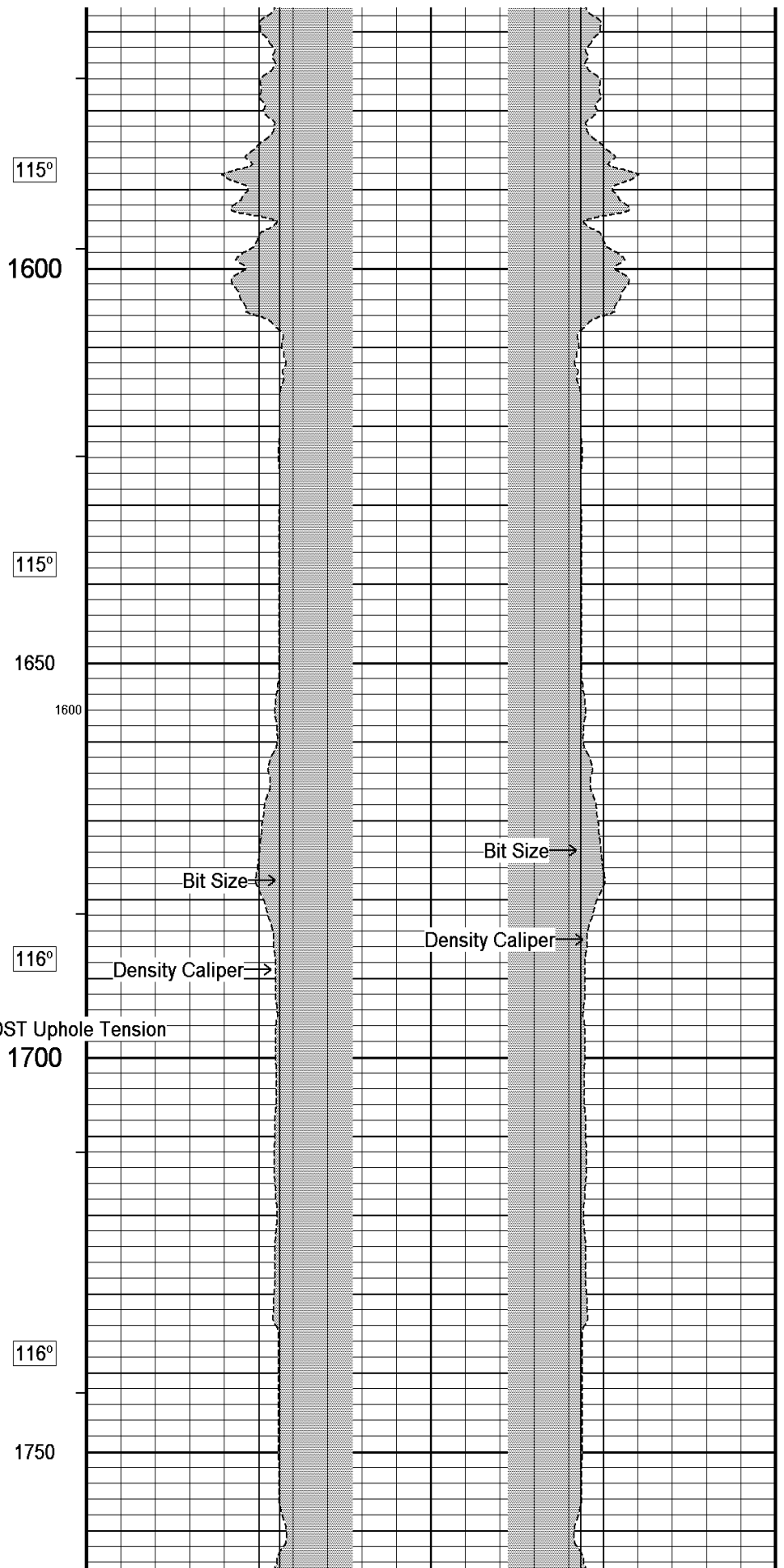
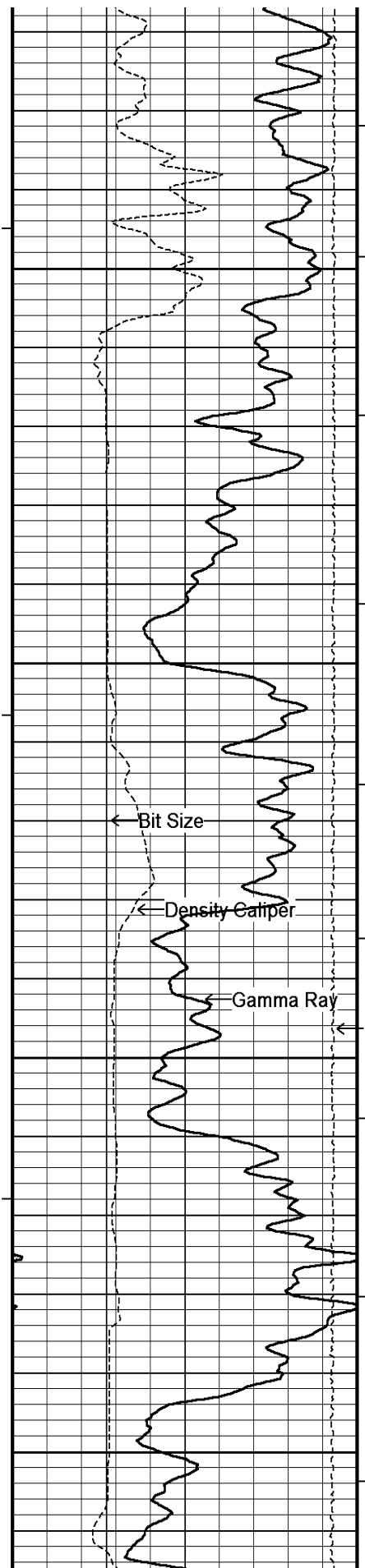


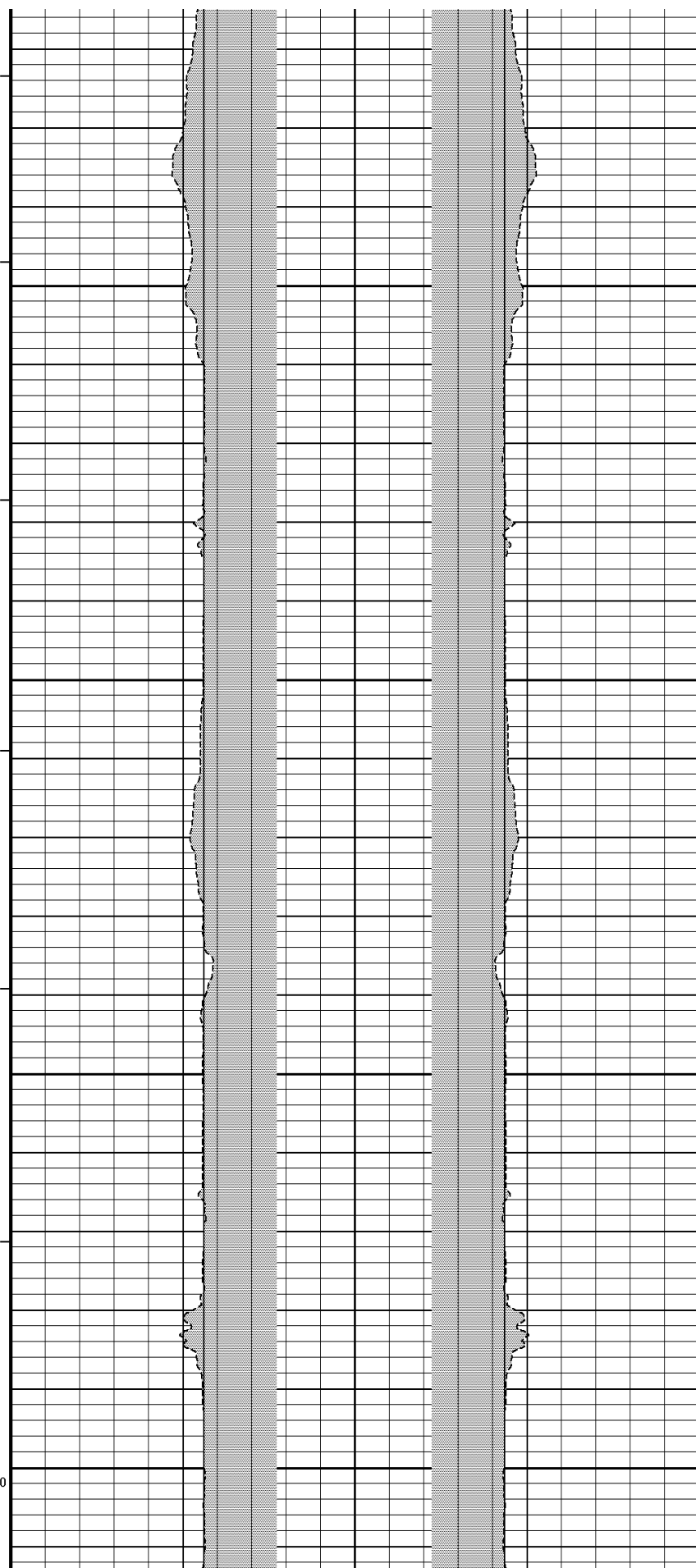
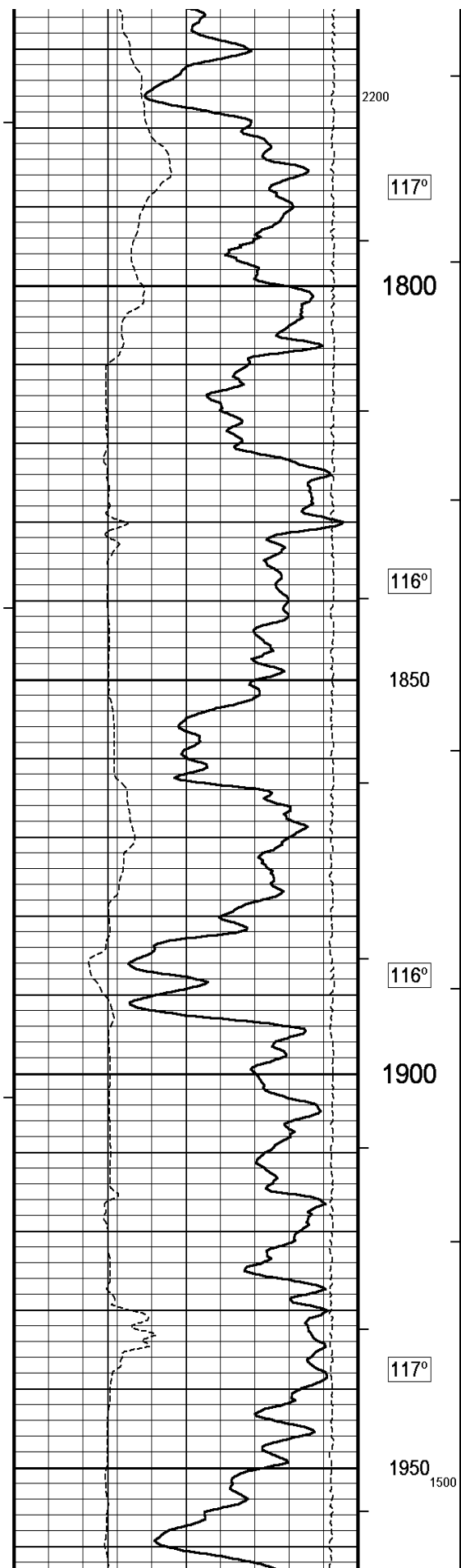




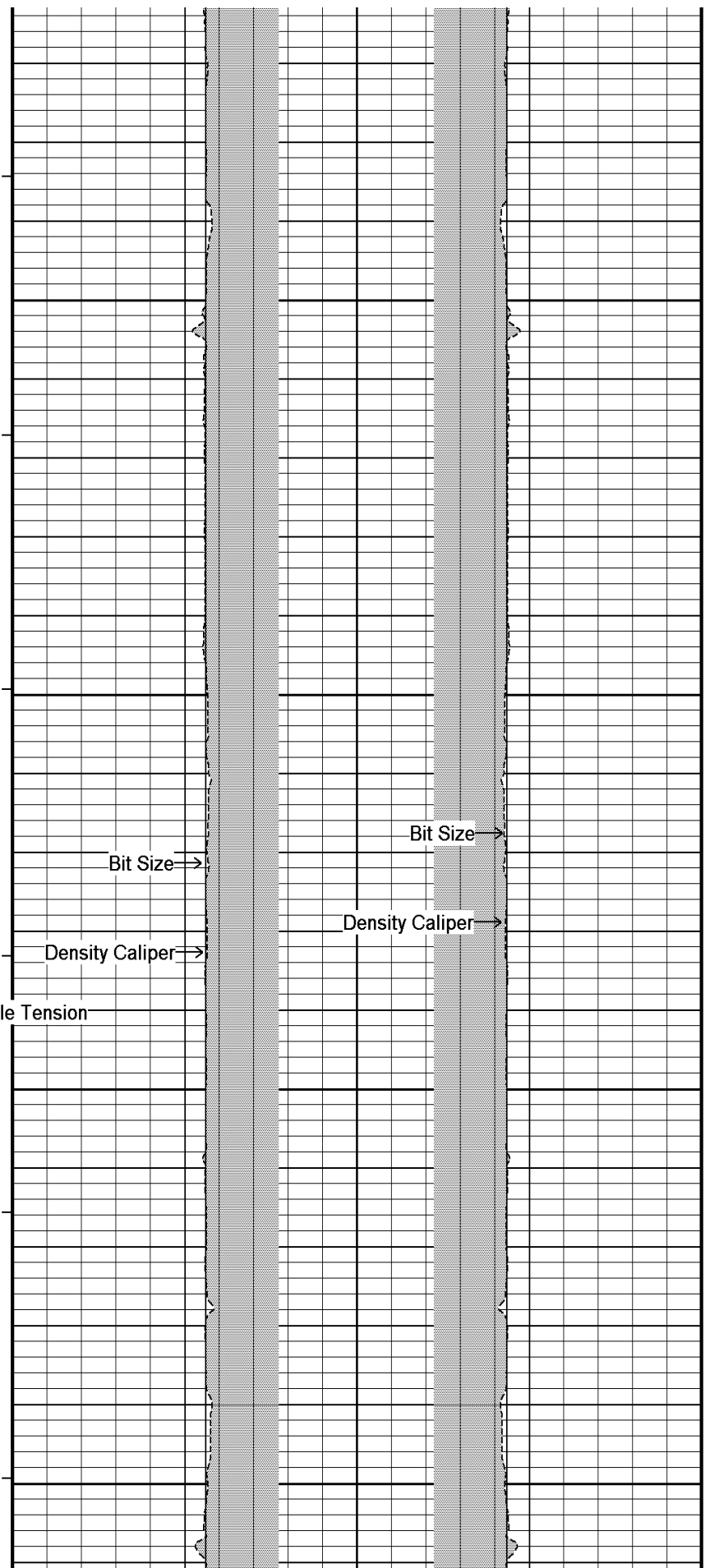
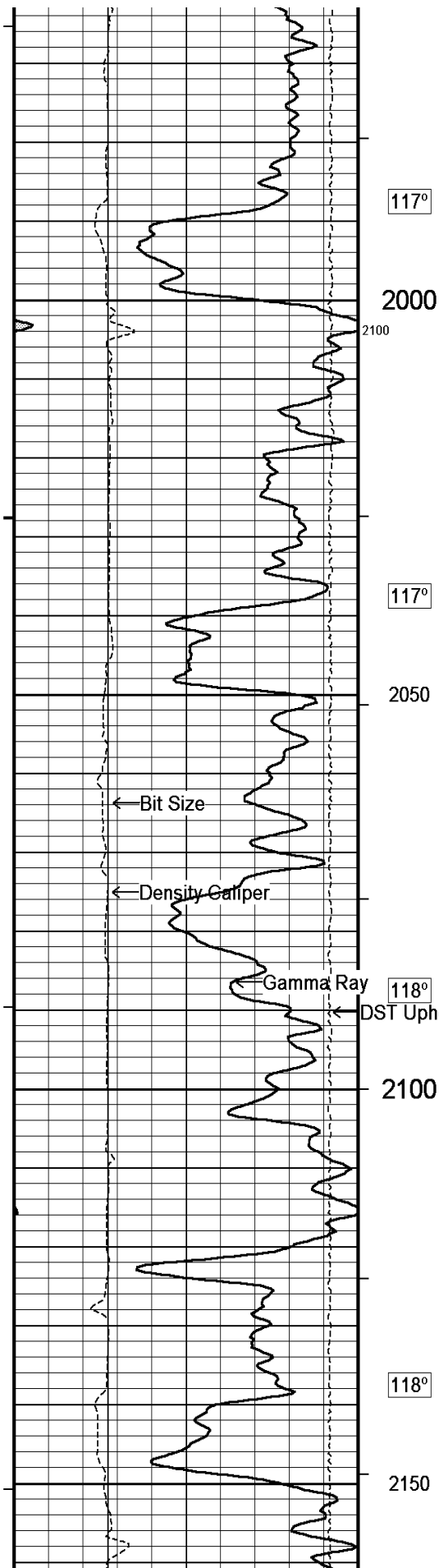


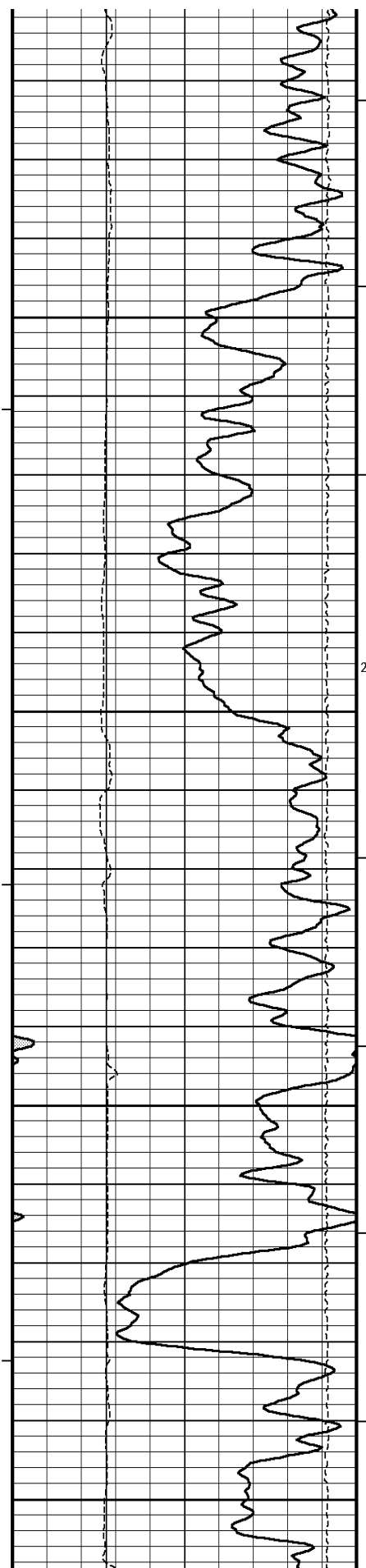












119°

2200

119°

2000

2250

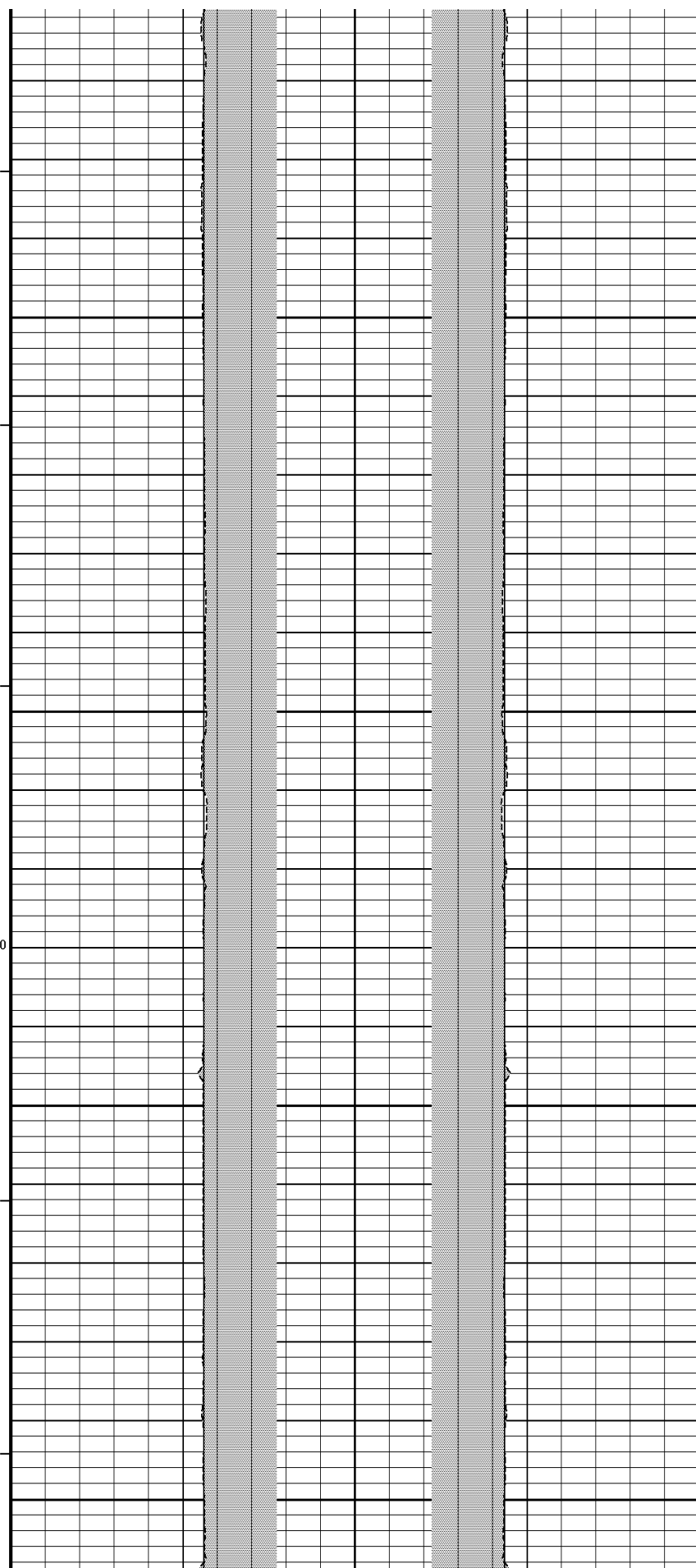
120°

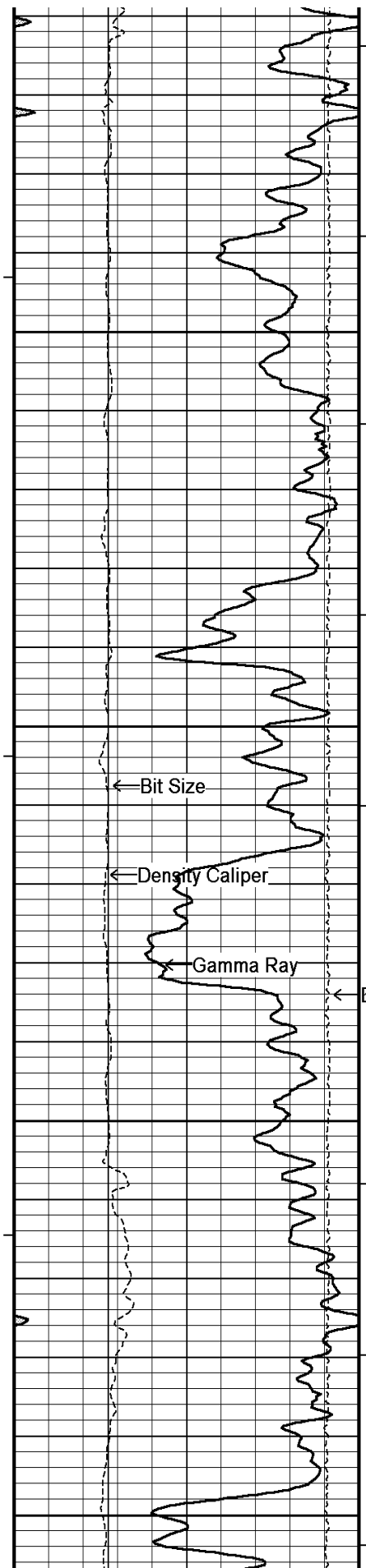
2300

120°

2350

1400





120°

2400

121°

2450

← Bit Size

← Density Caliper

× Gamma Ray

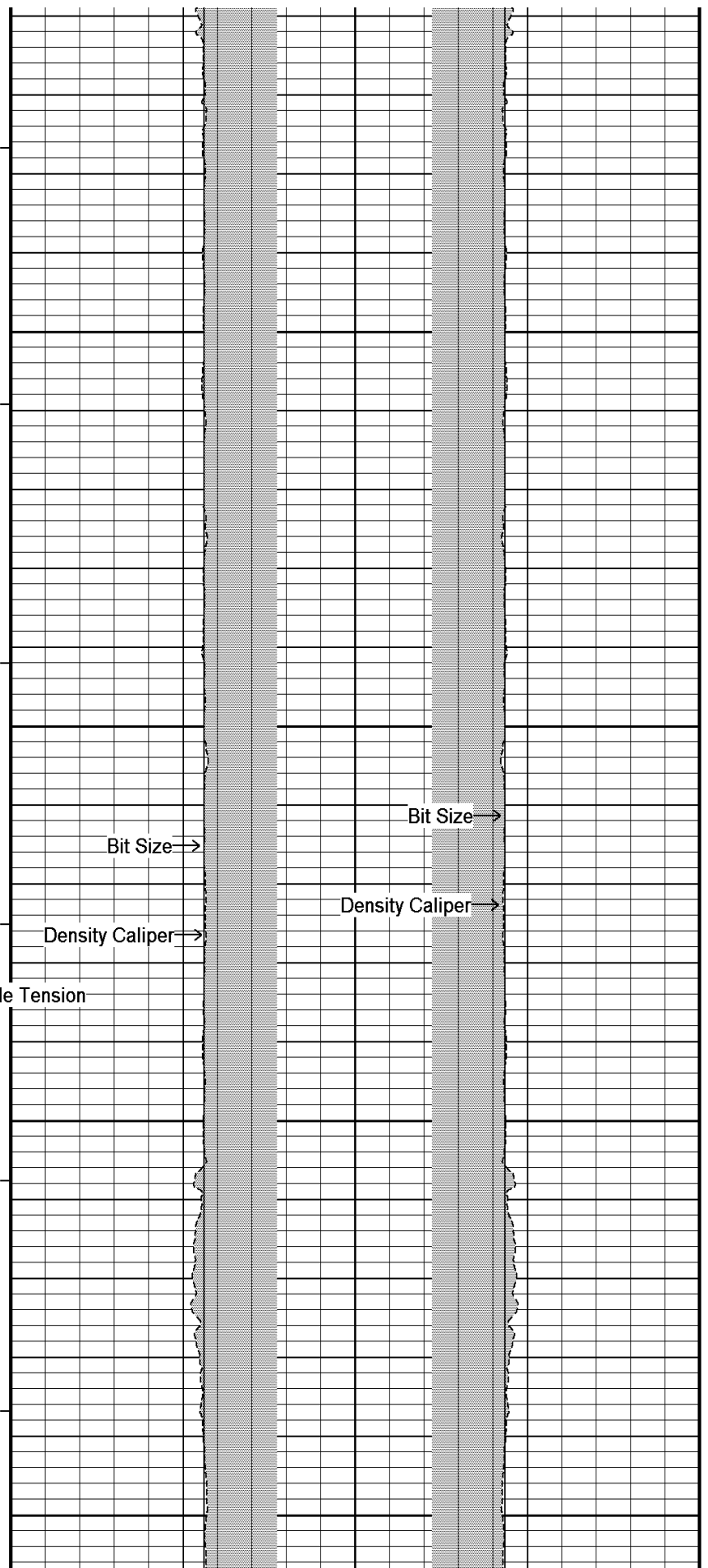
← DST Uphole Tension

122°

2500

122°

2550

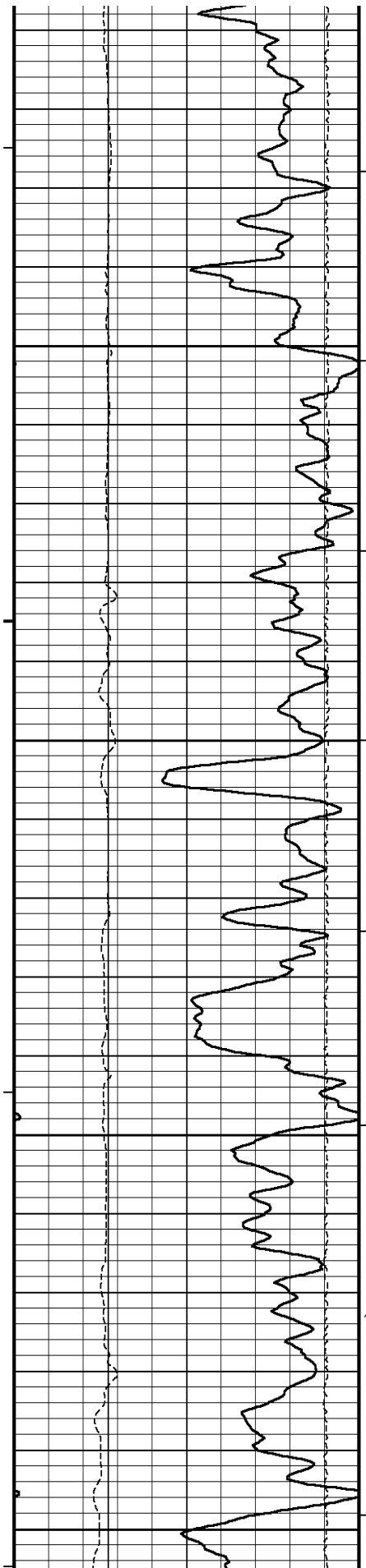


Bit Size →

Density Caliper →

Bit Size →

Density Caliper →



123°

2600  
1300

123°

2650

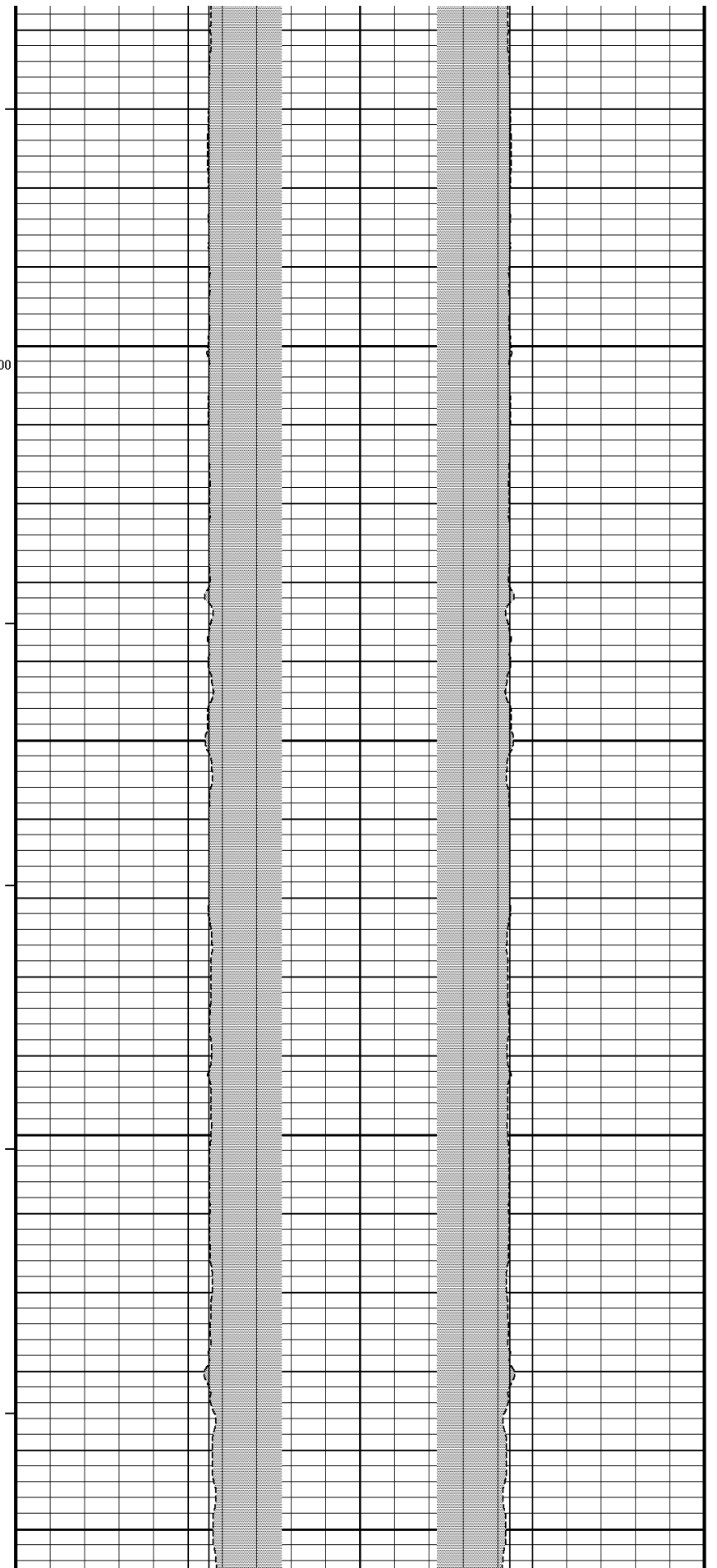
124°

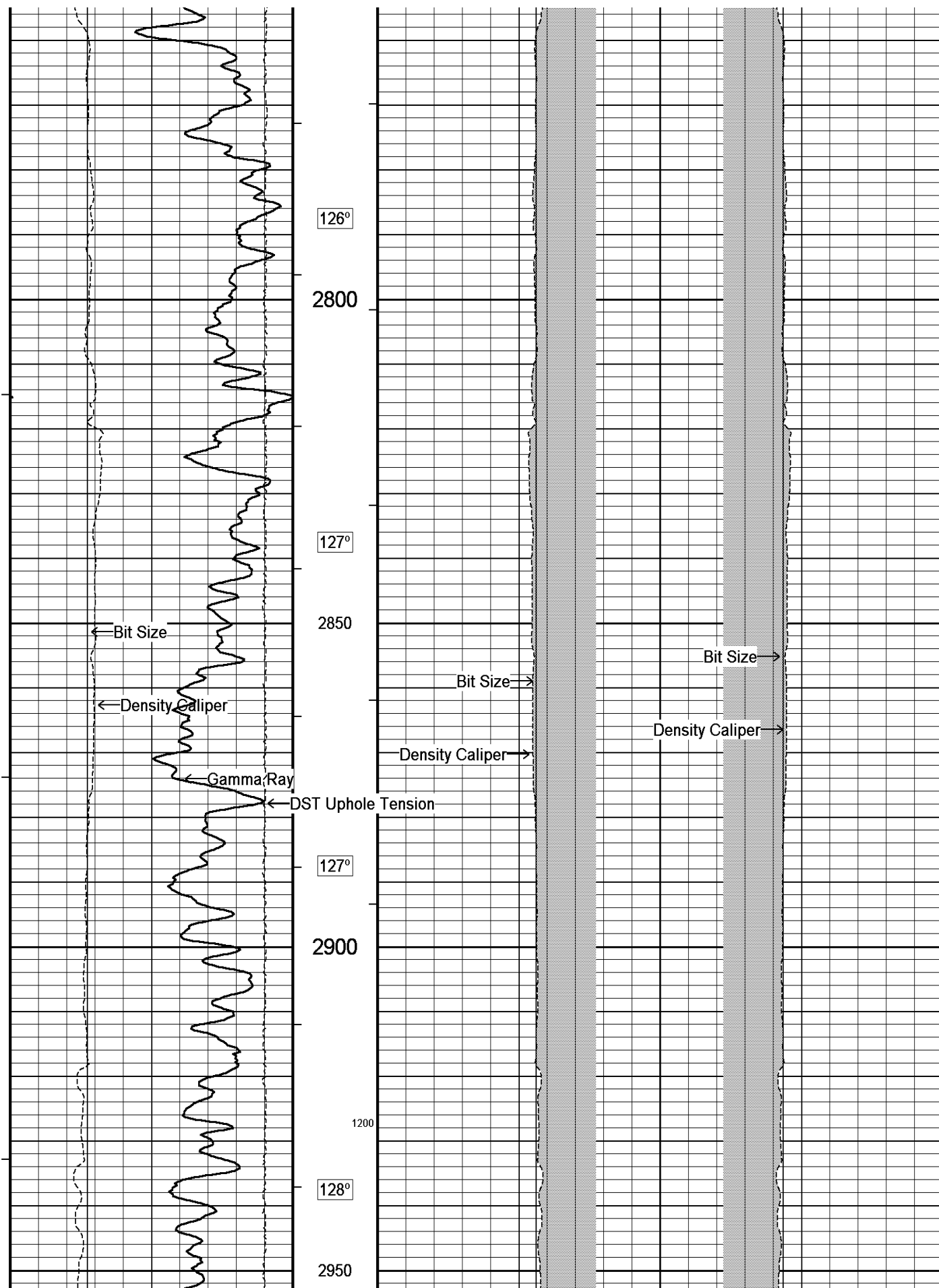
2700

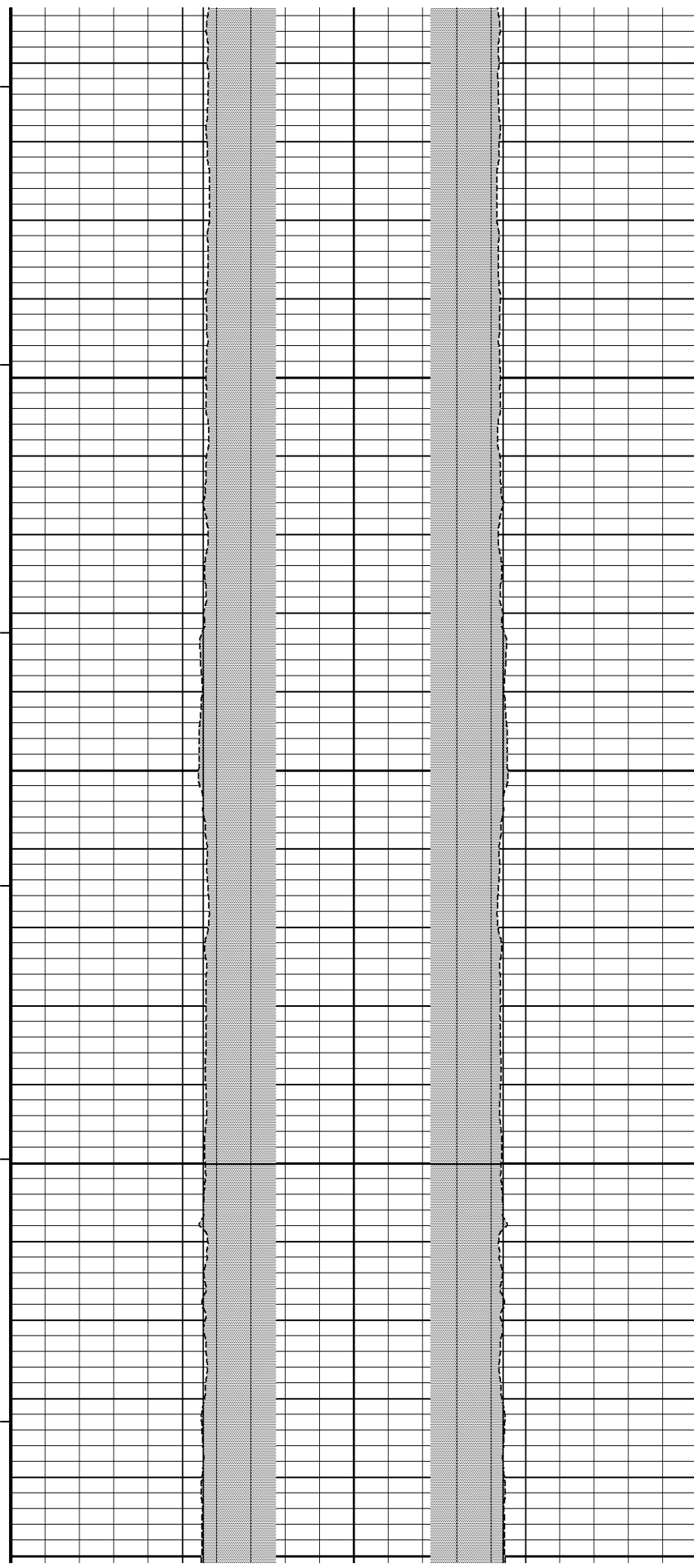
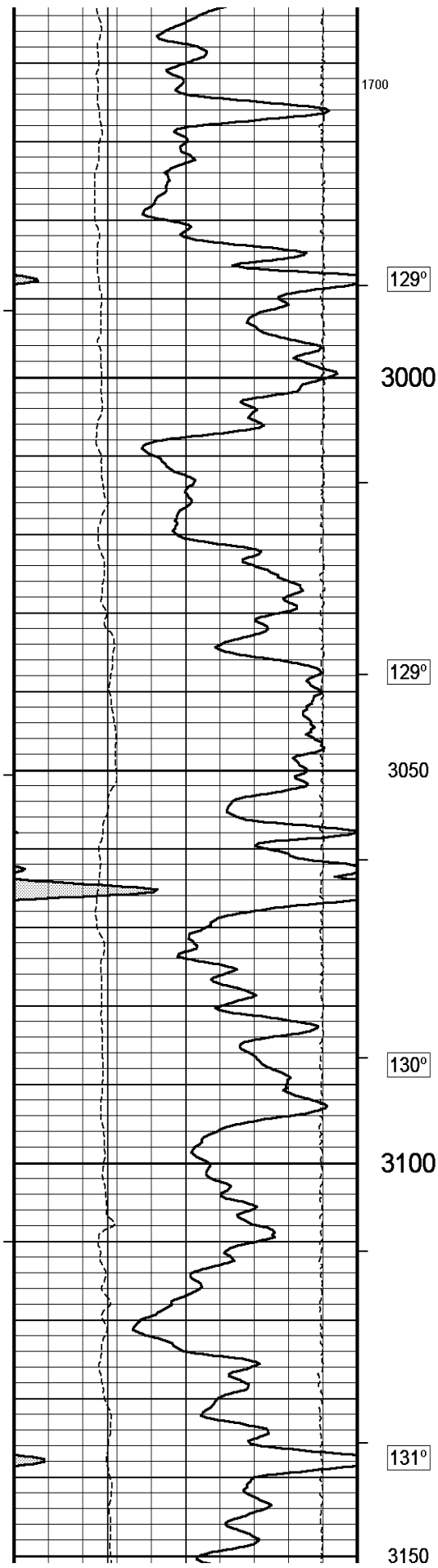
1800

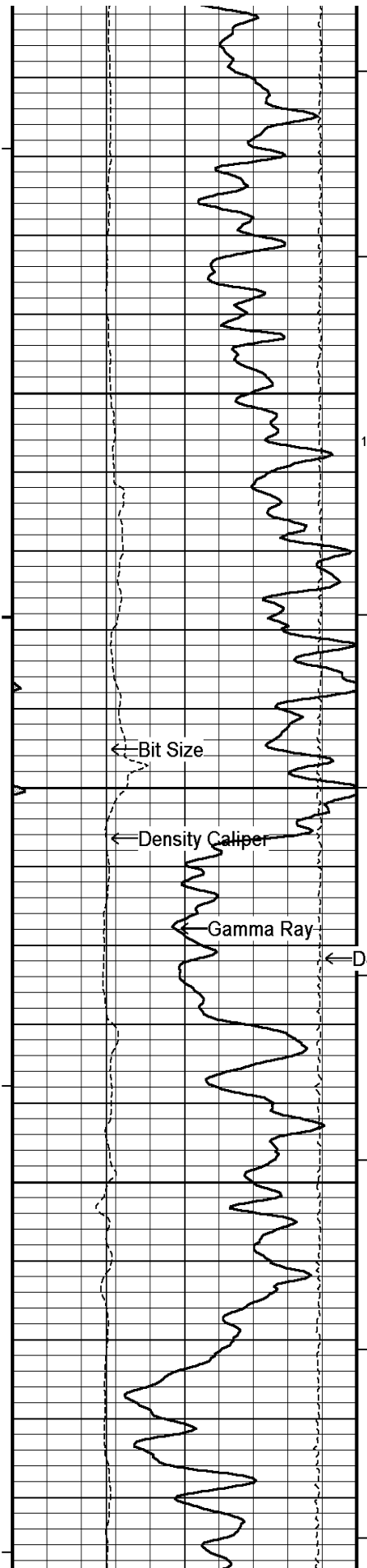
125°

2750









131°

3200

1600

132°

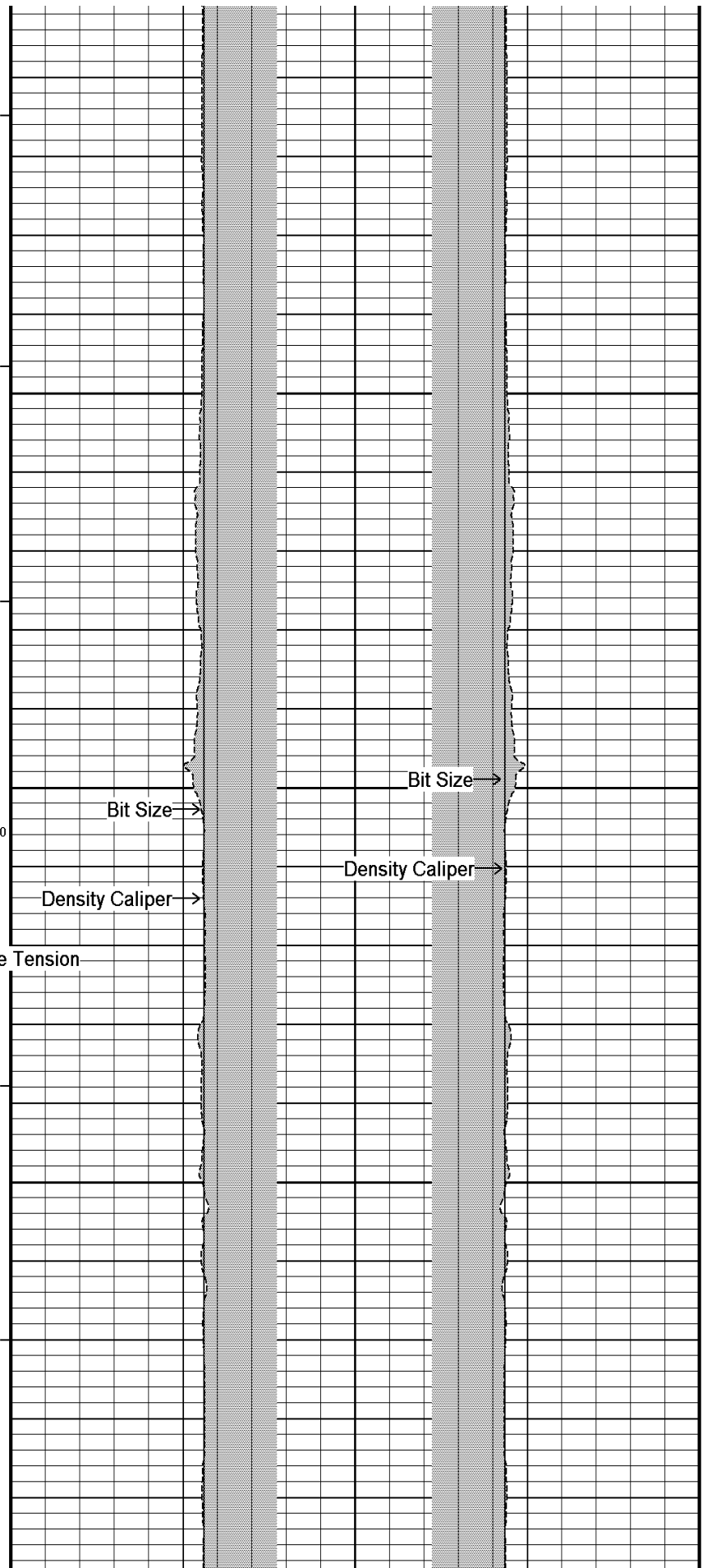
3250

1100

133°

3300

133°

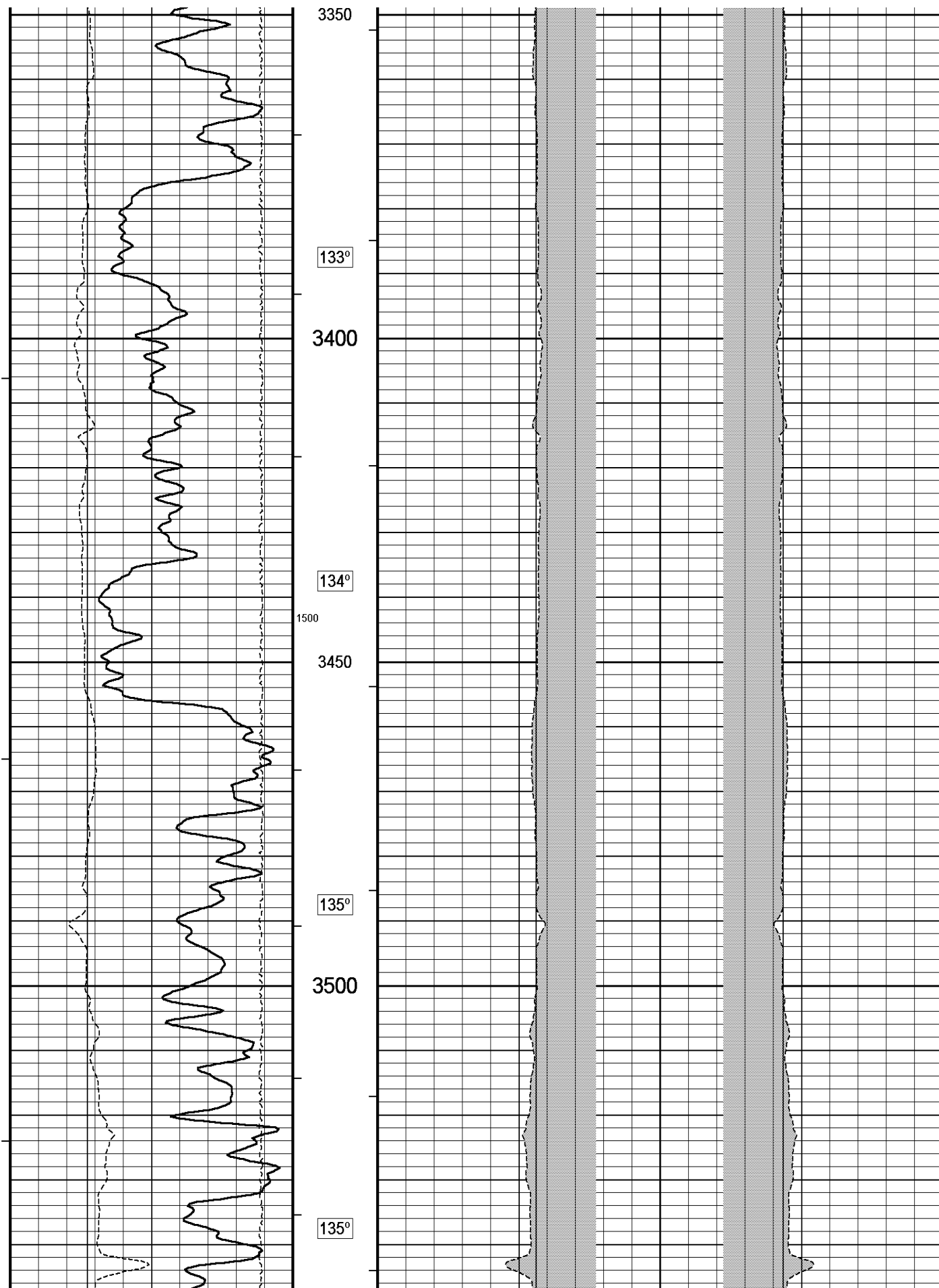


Bit Size

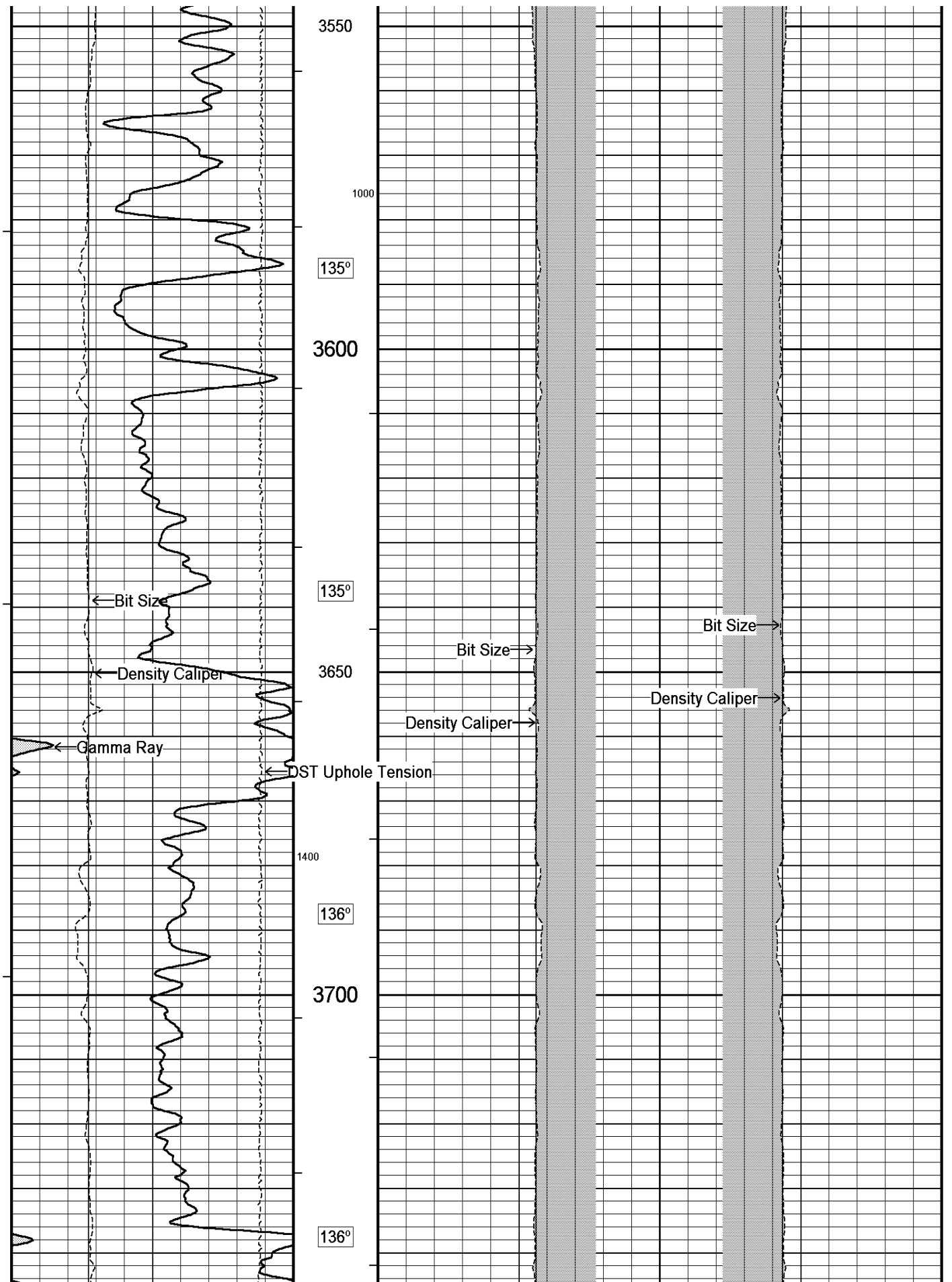
Bit Size

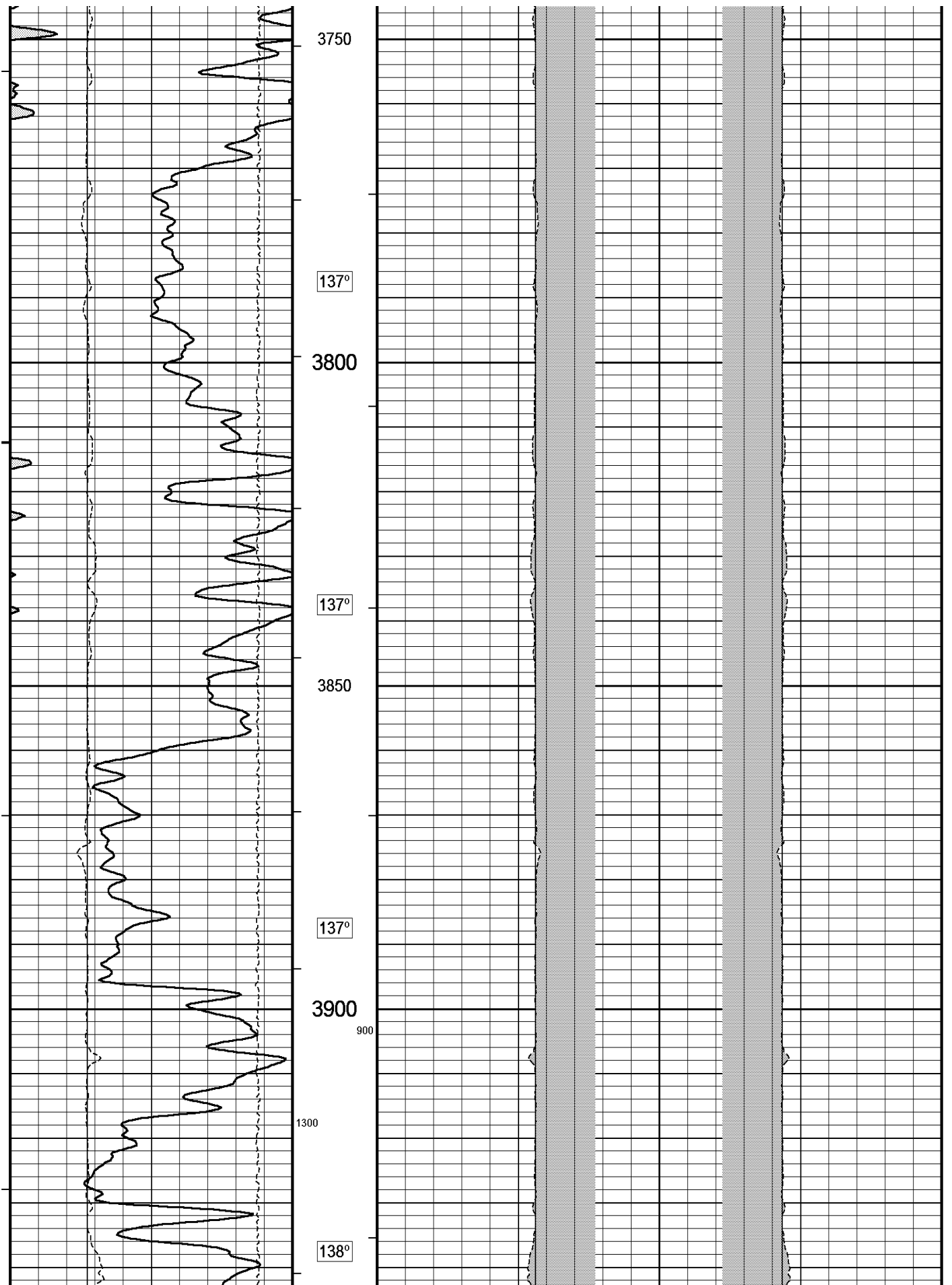
Density Caliper

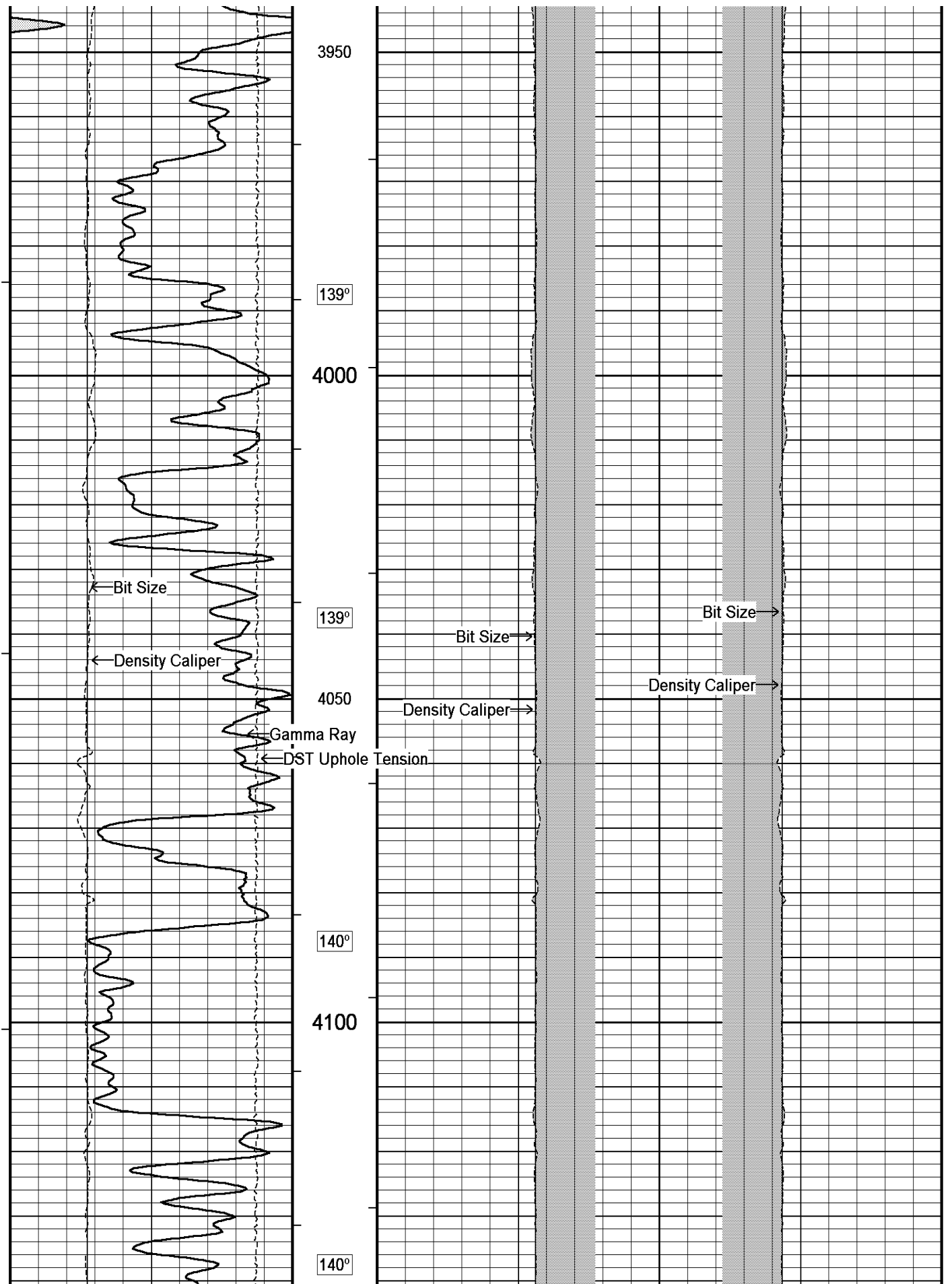
Density Caliper

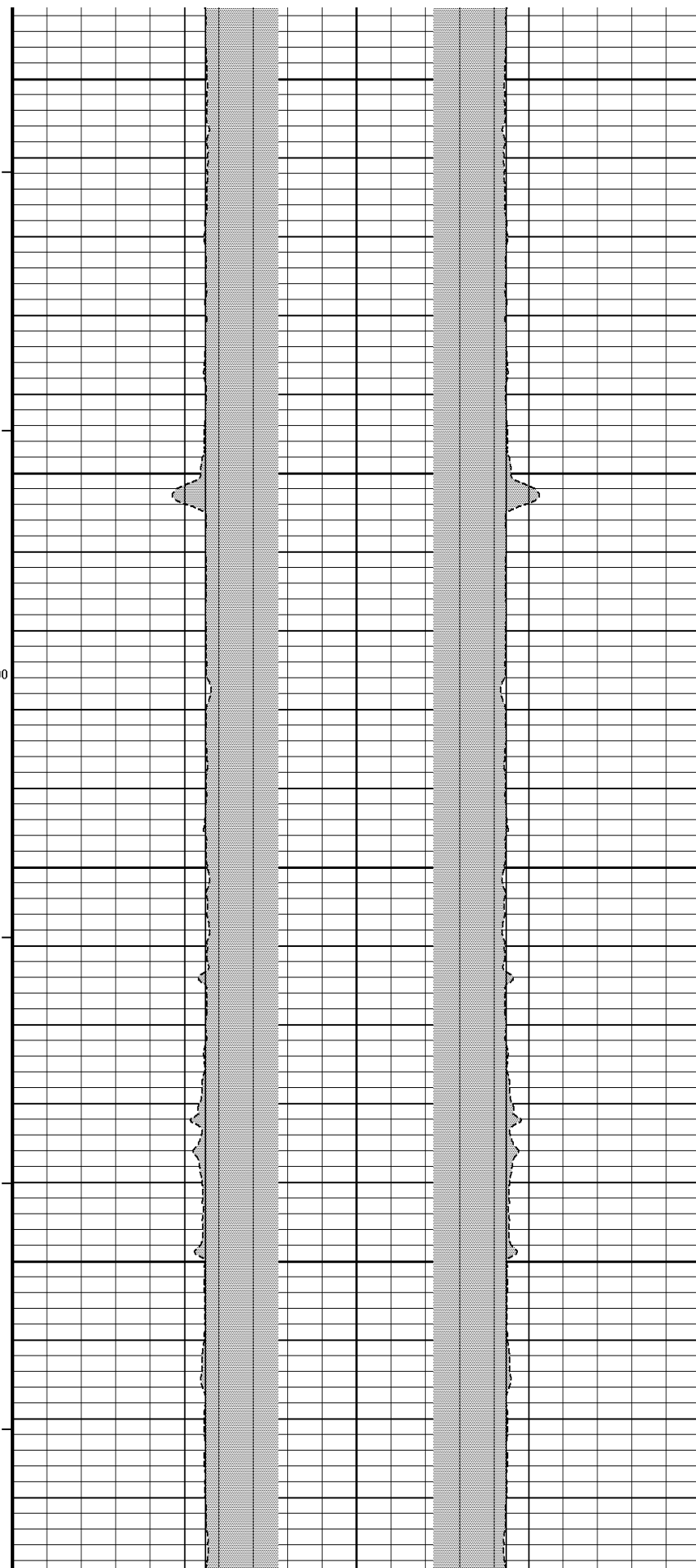
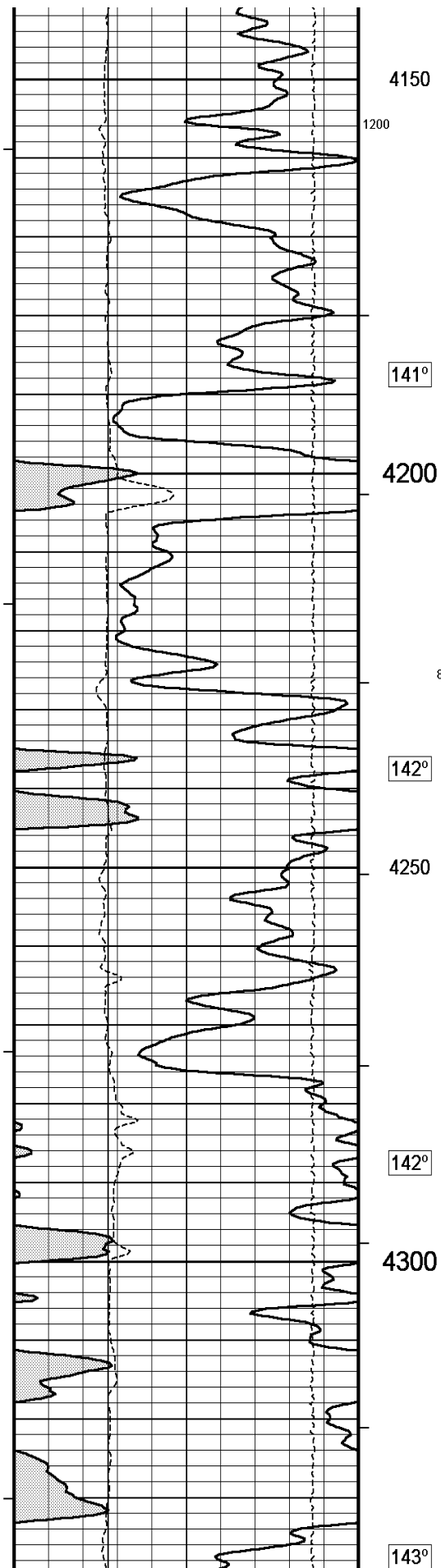


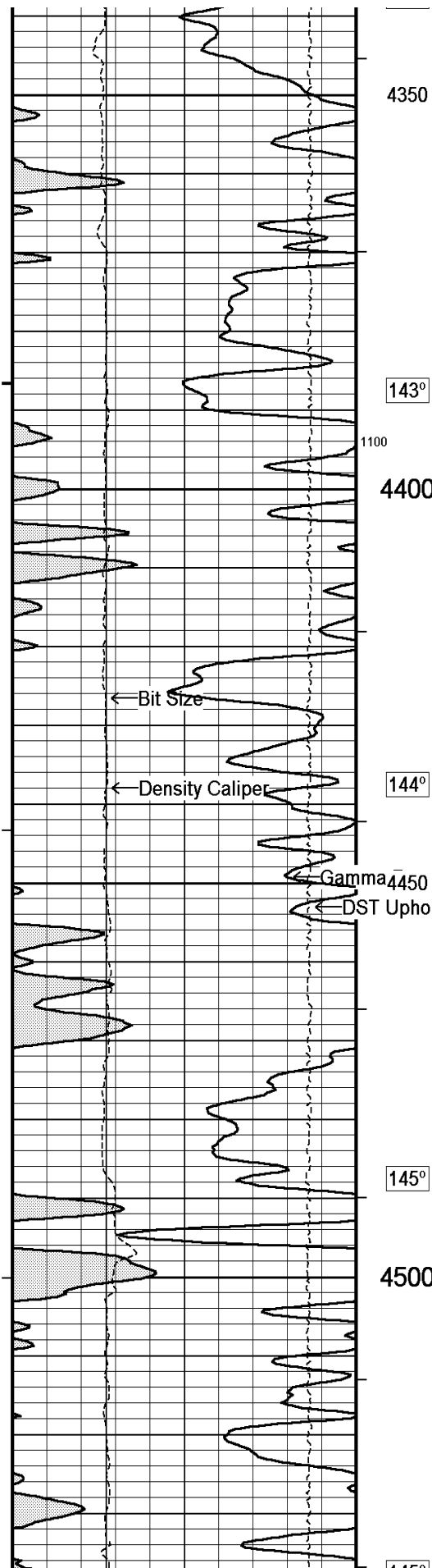












4350

143°

1100

4400

← Bit Size

← Density Caliper

← Gamma Ray

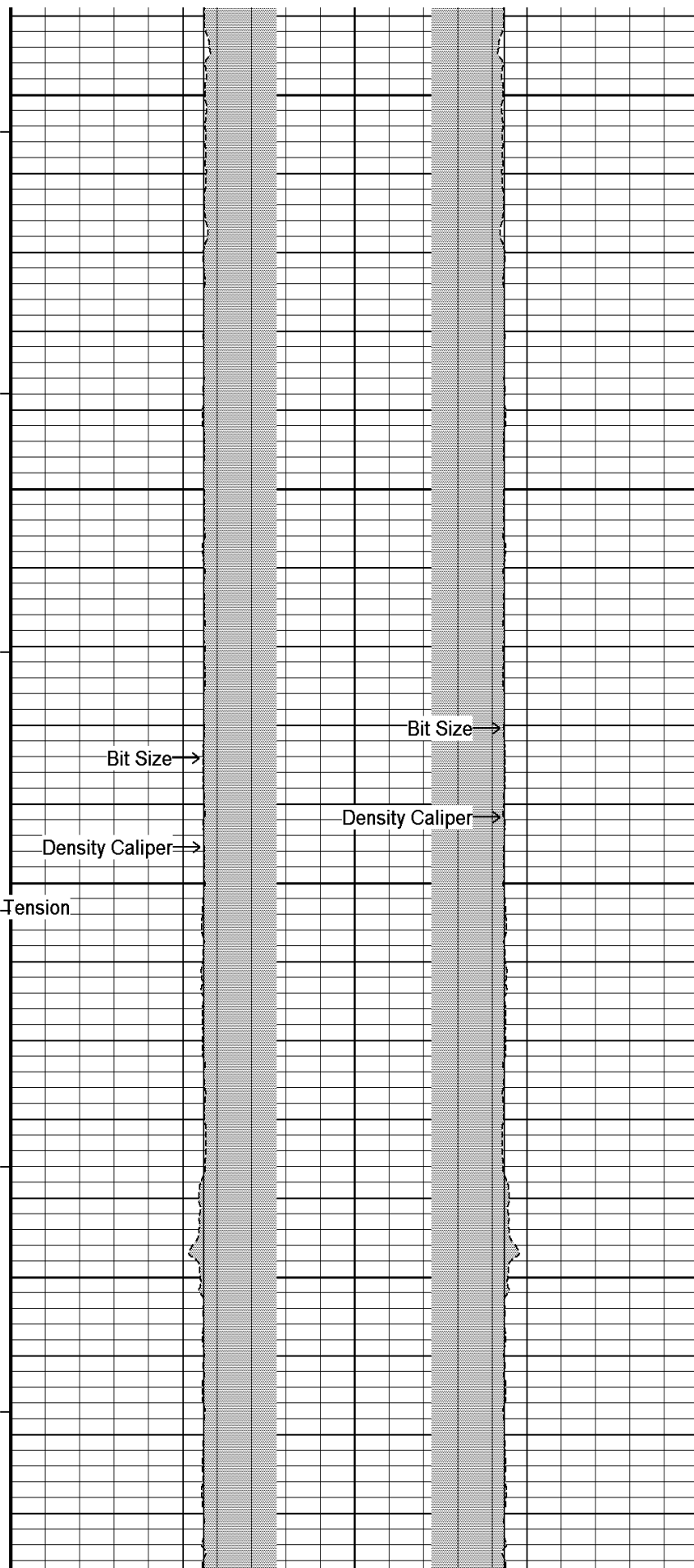
← DST Uphole Tension

144°

145°

4500

4550

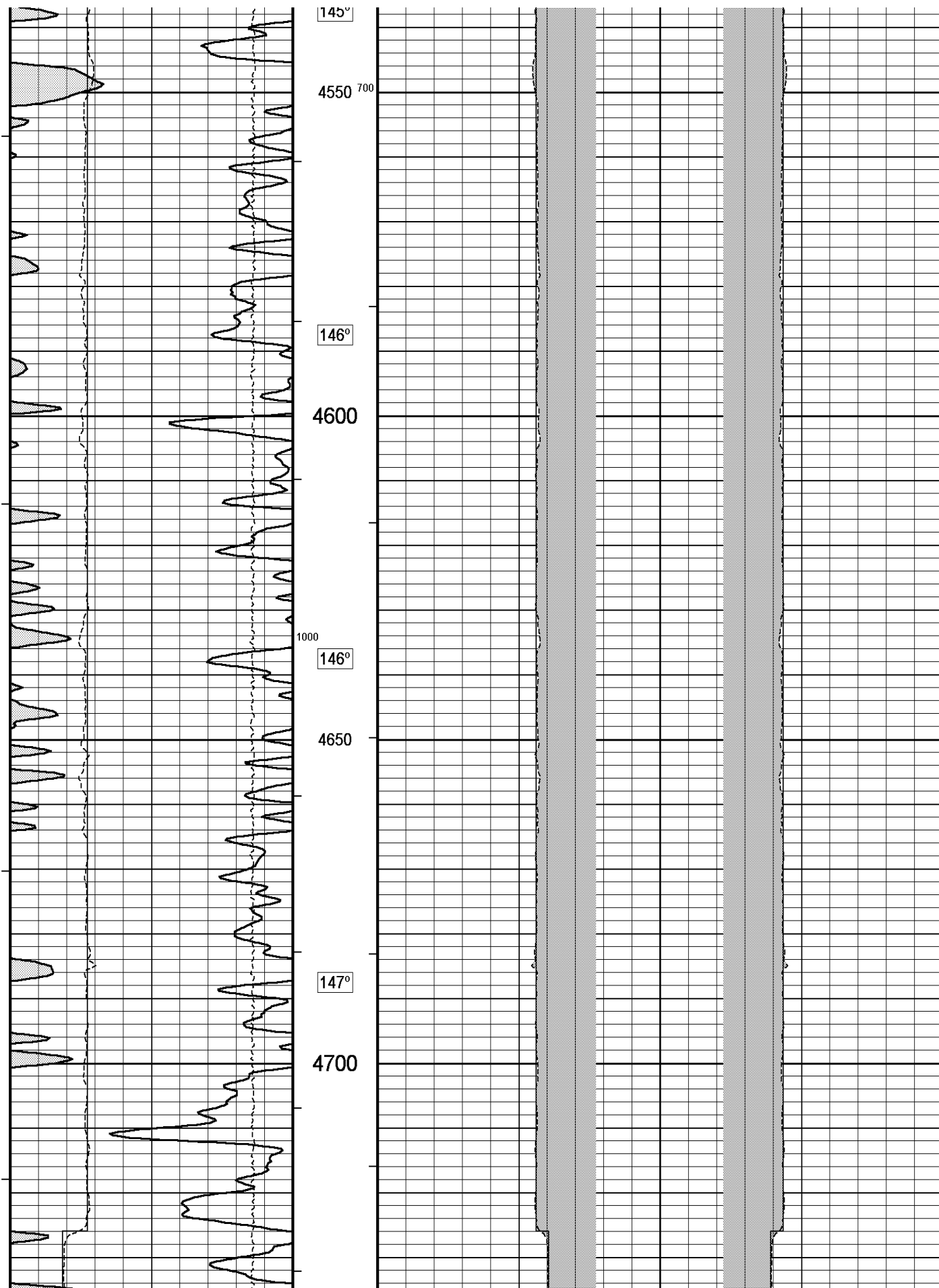


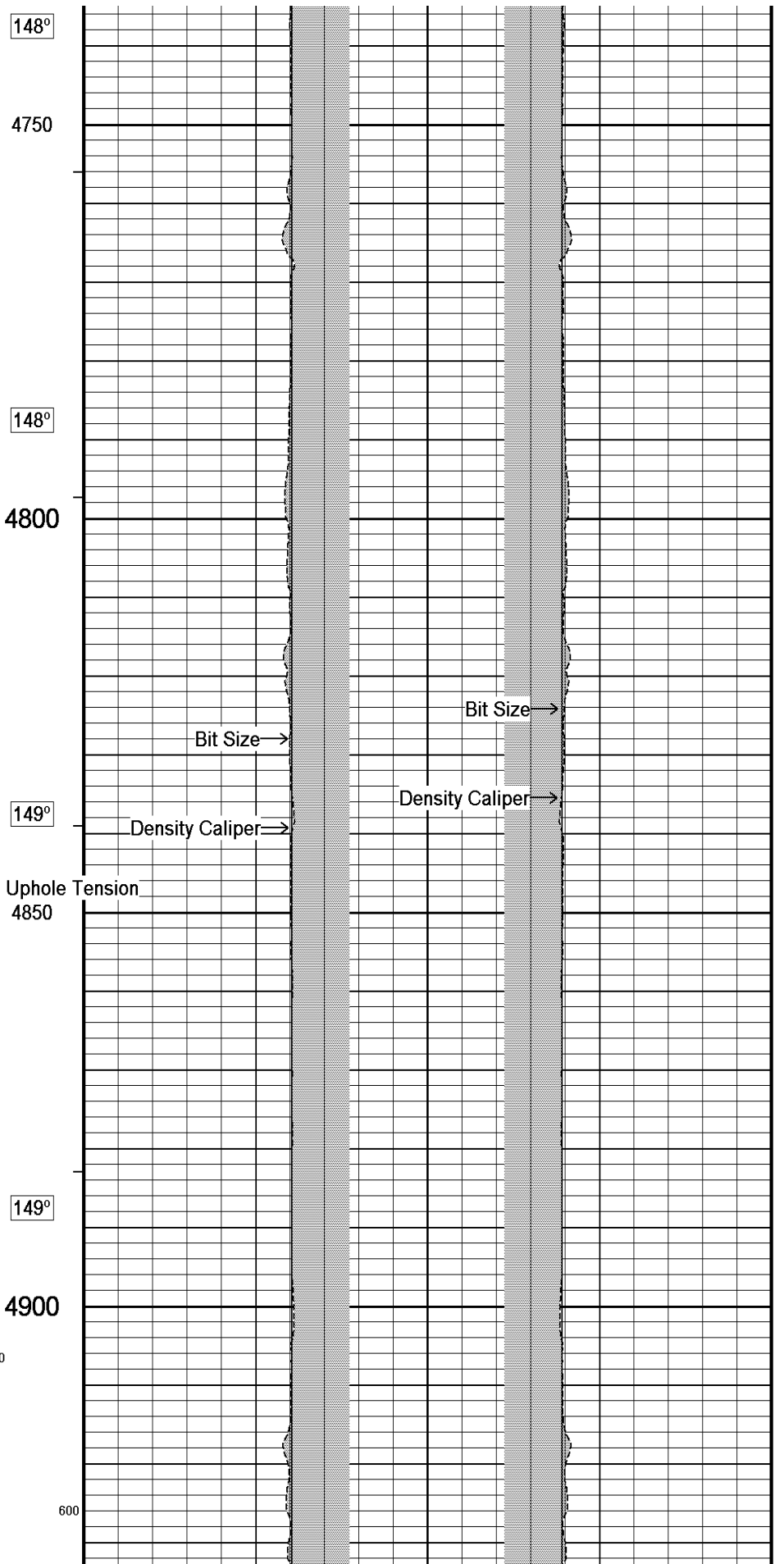
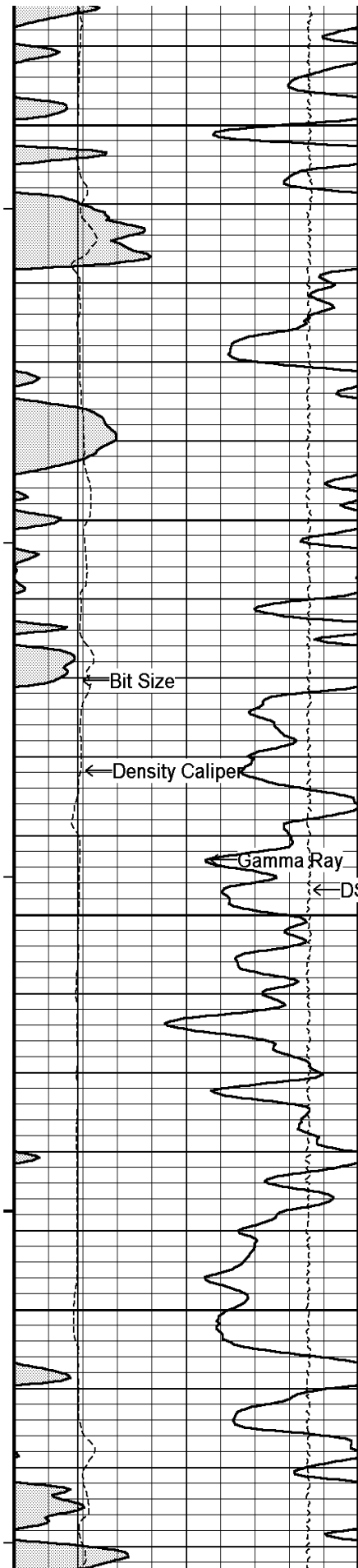
Bit Size →

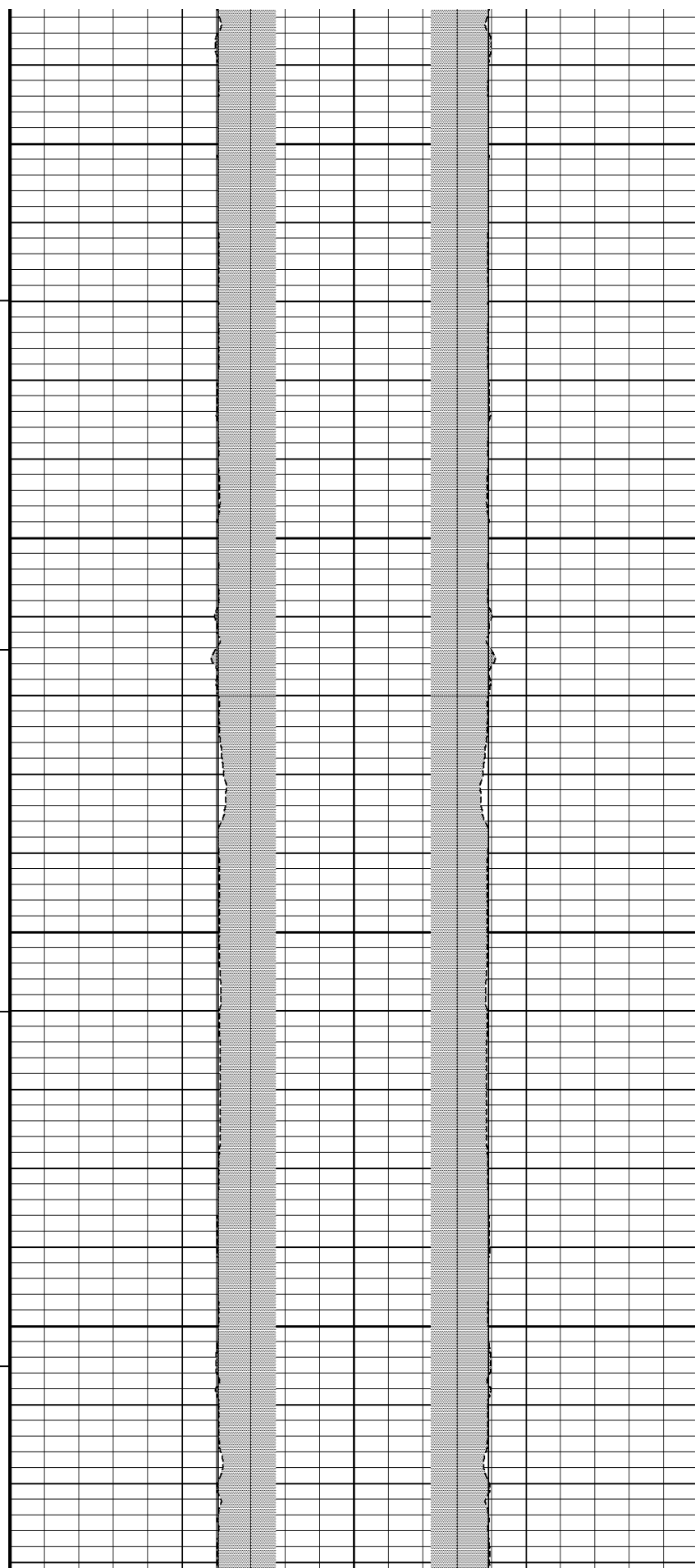
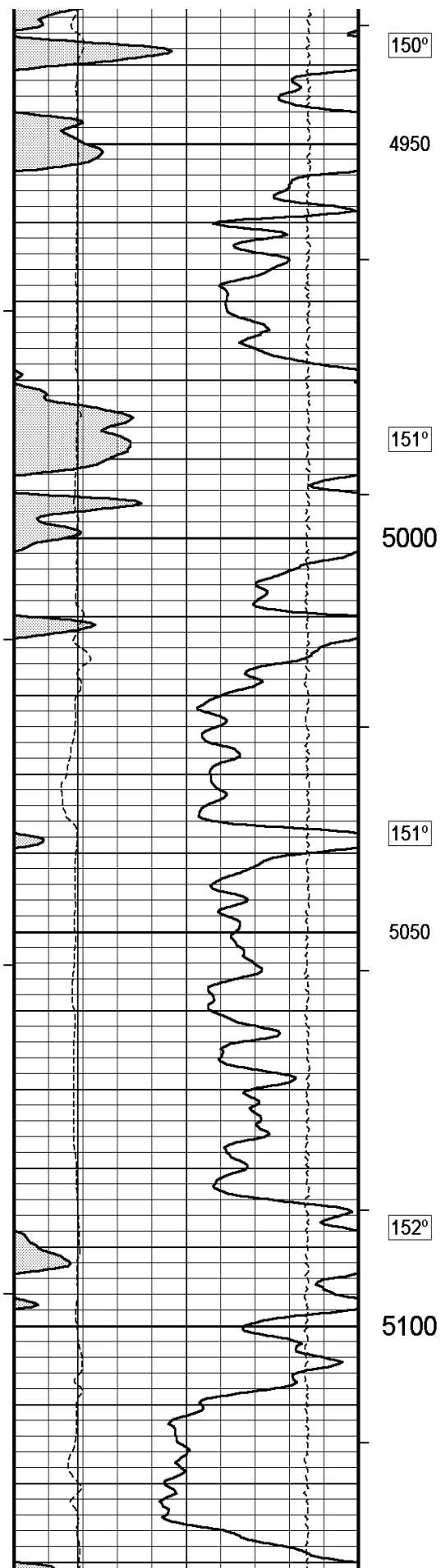
Density Caliper →

Bit Size →

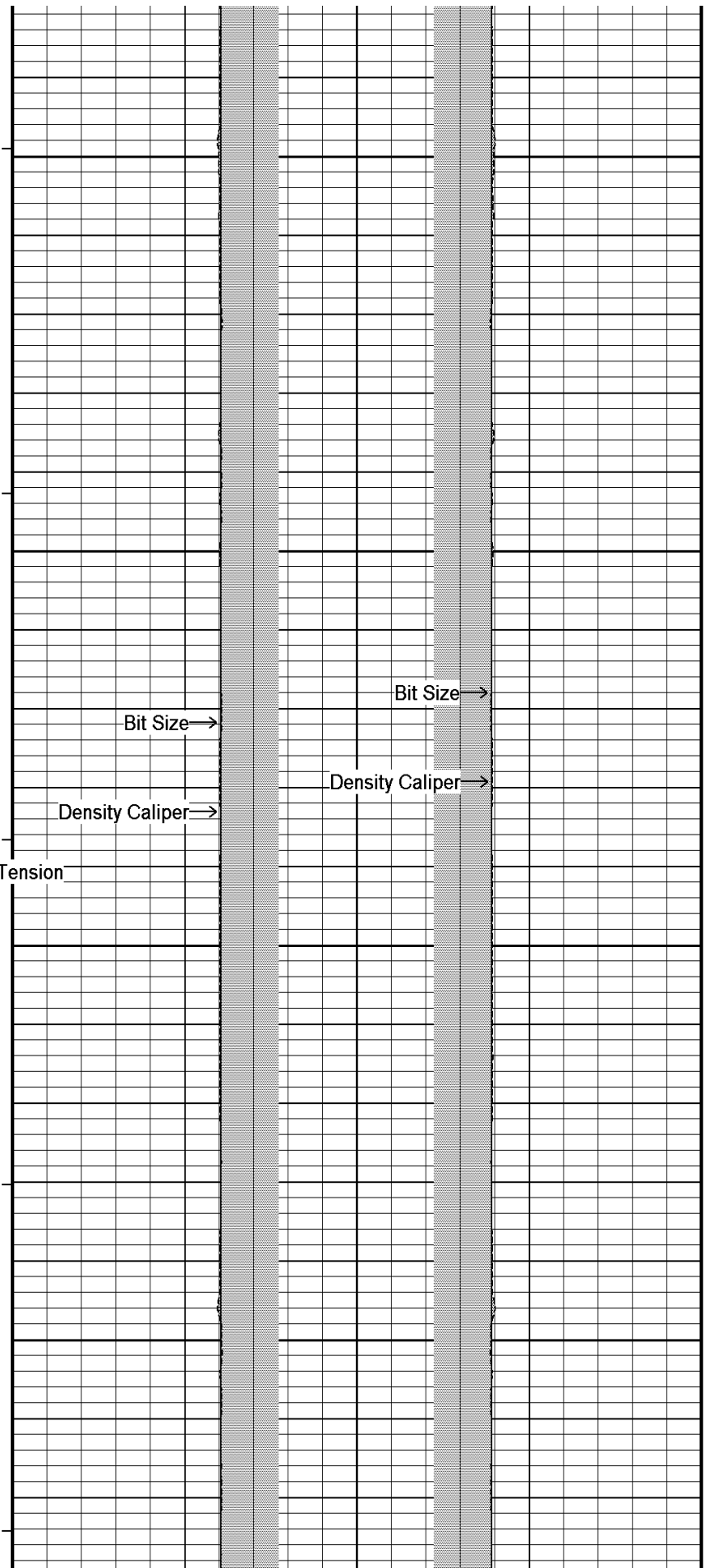
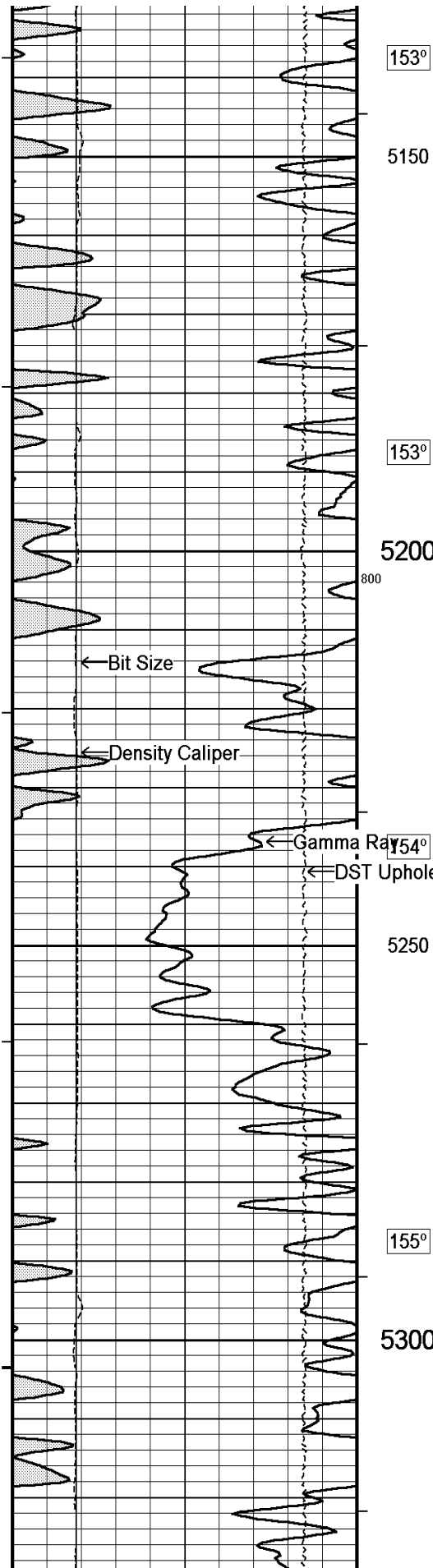
Density Caliper →

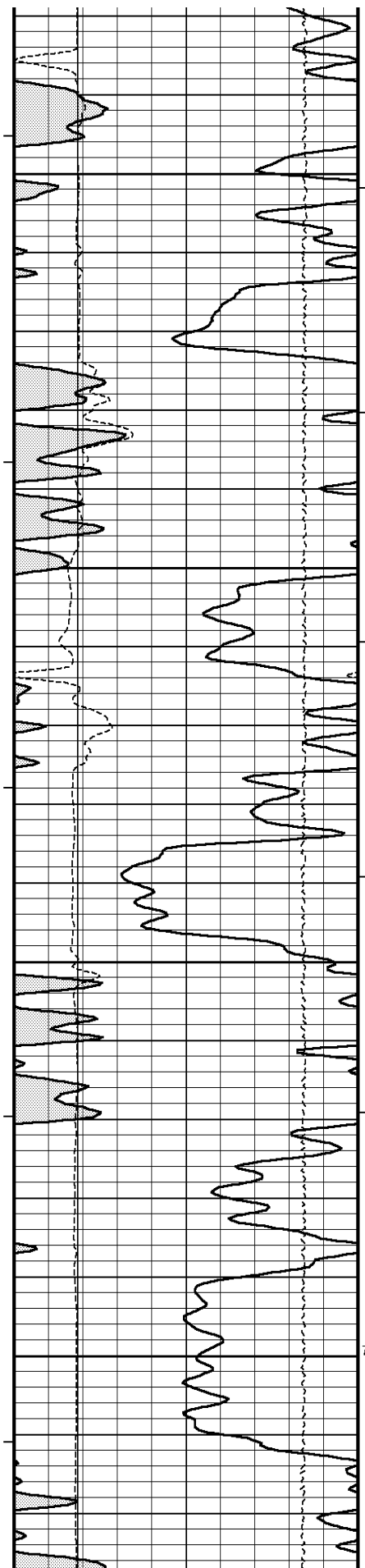












156°

5350

500

156°

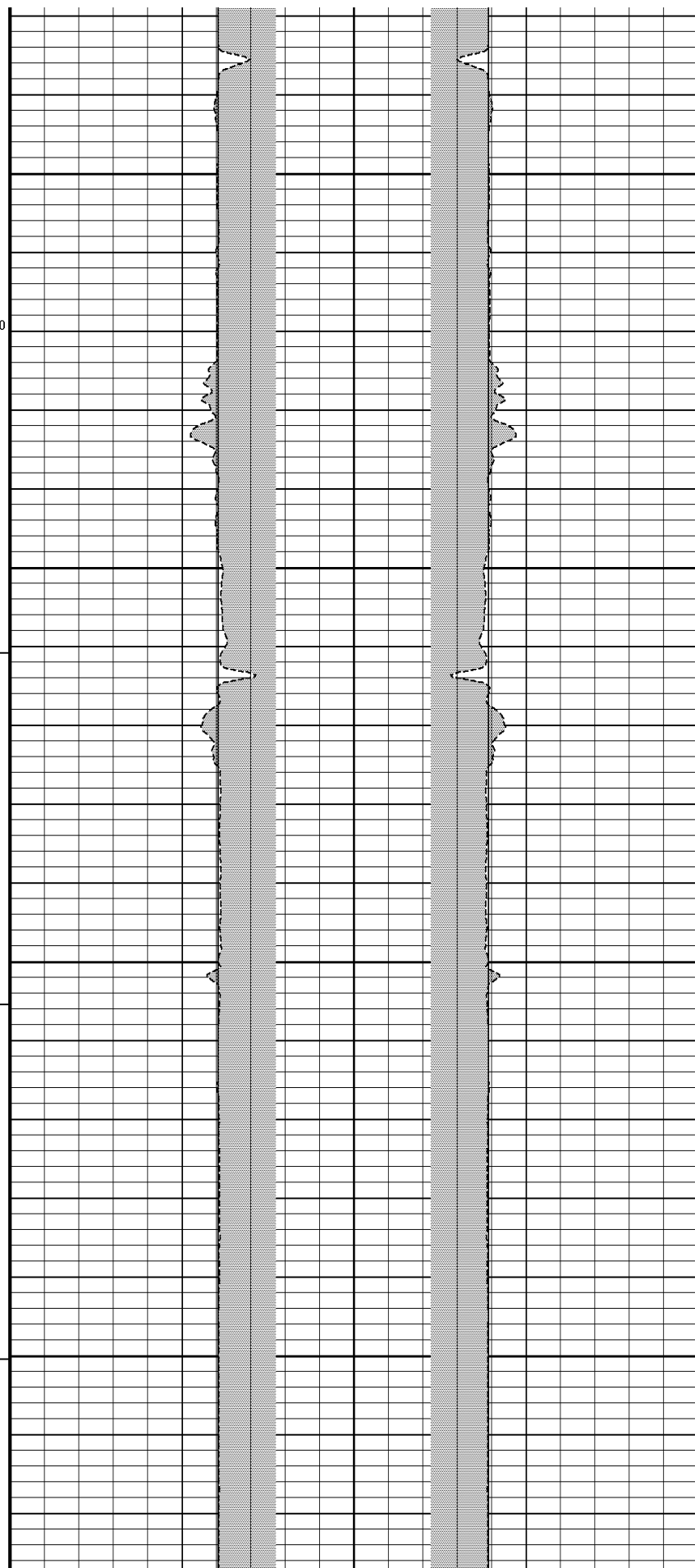
5400

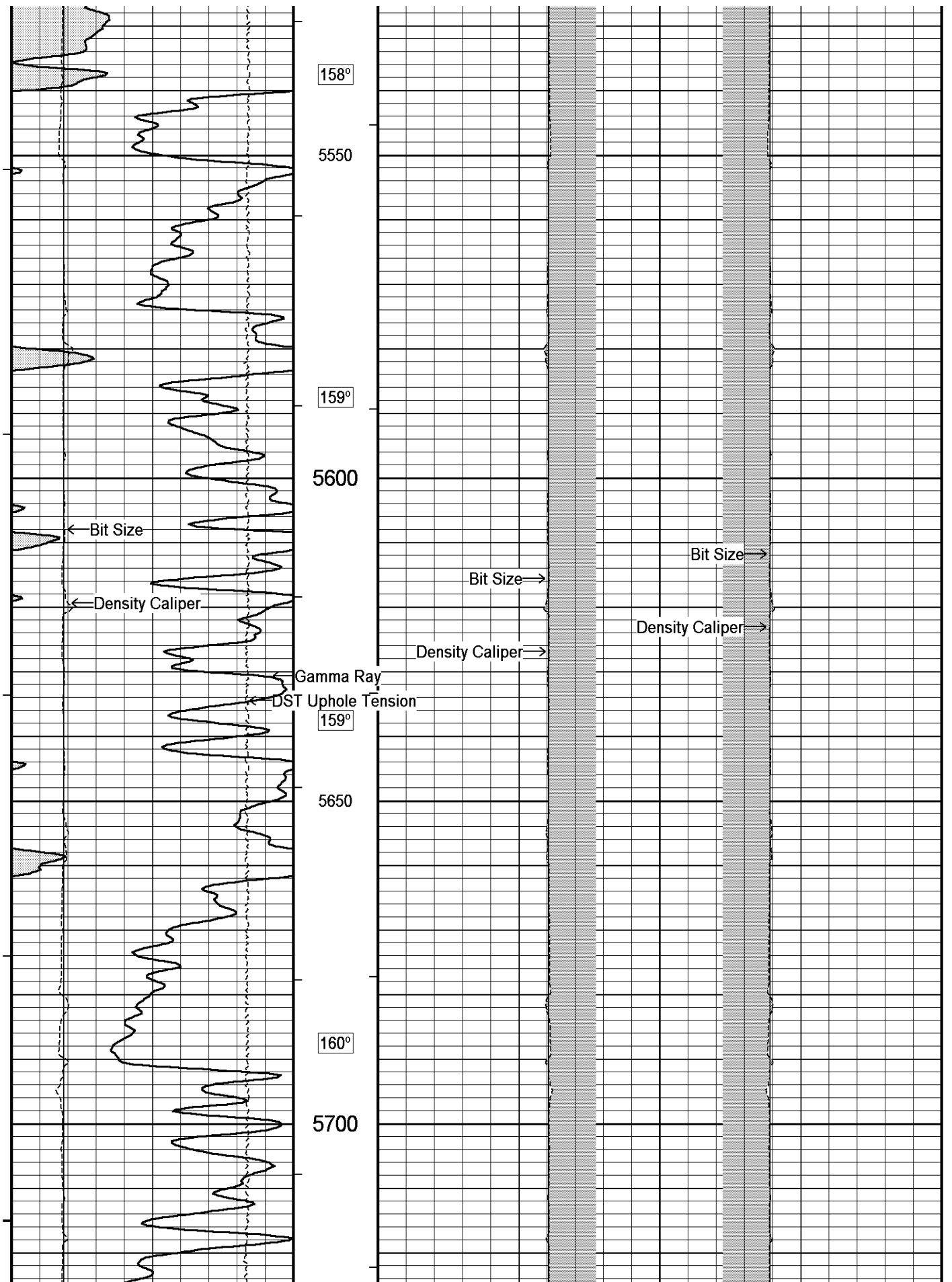
157°

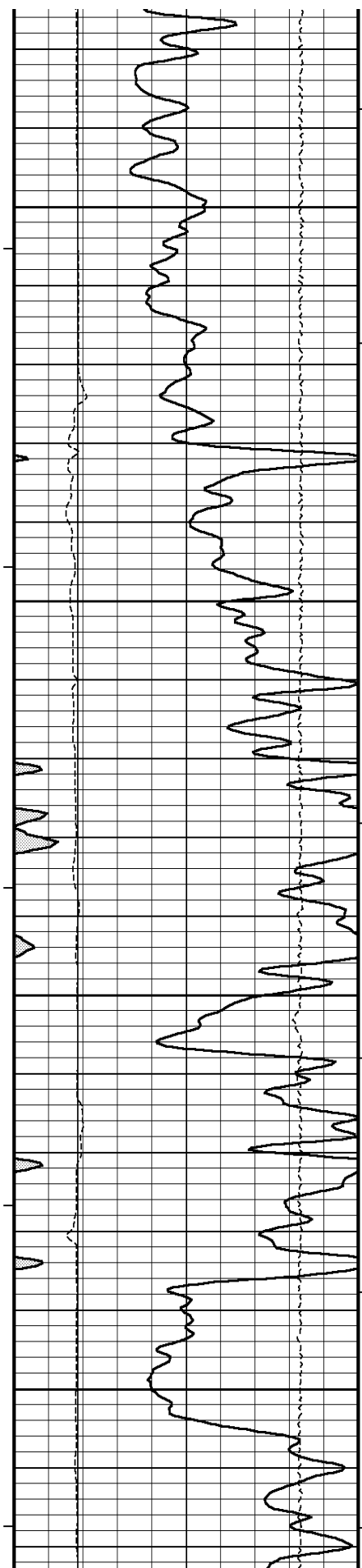
5450

157°

5500







161°

5750

161°

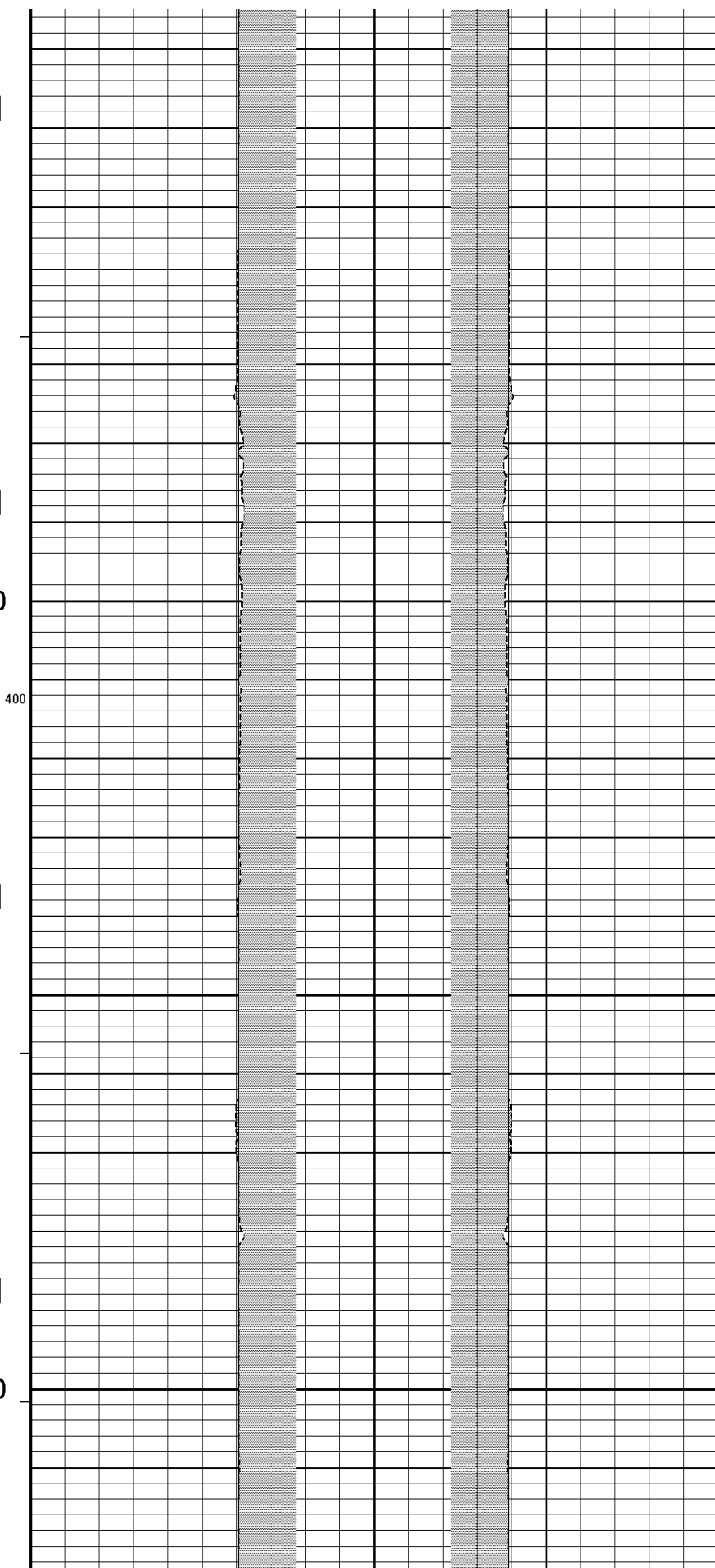
5800

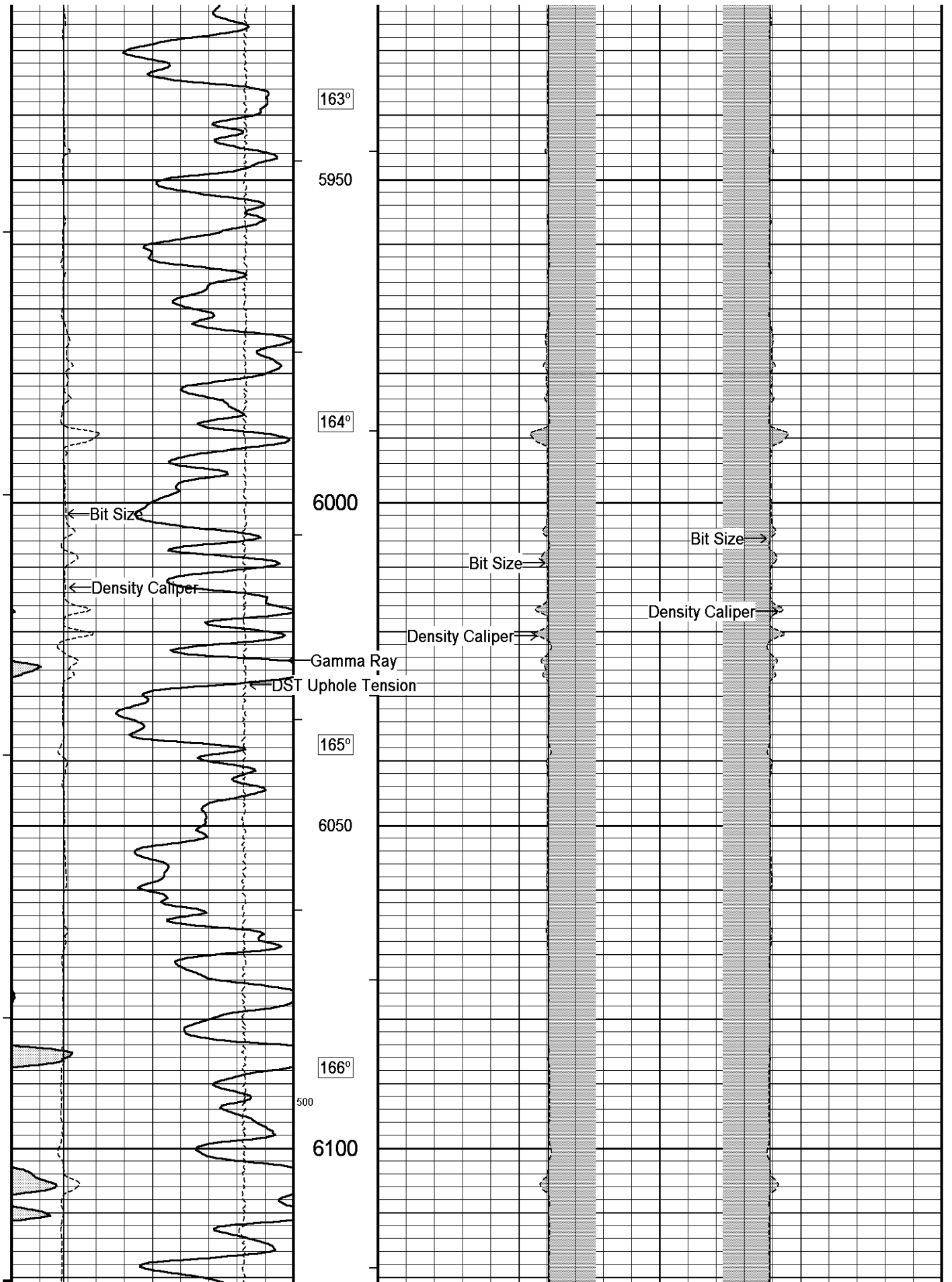
162°

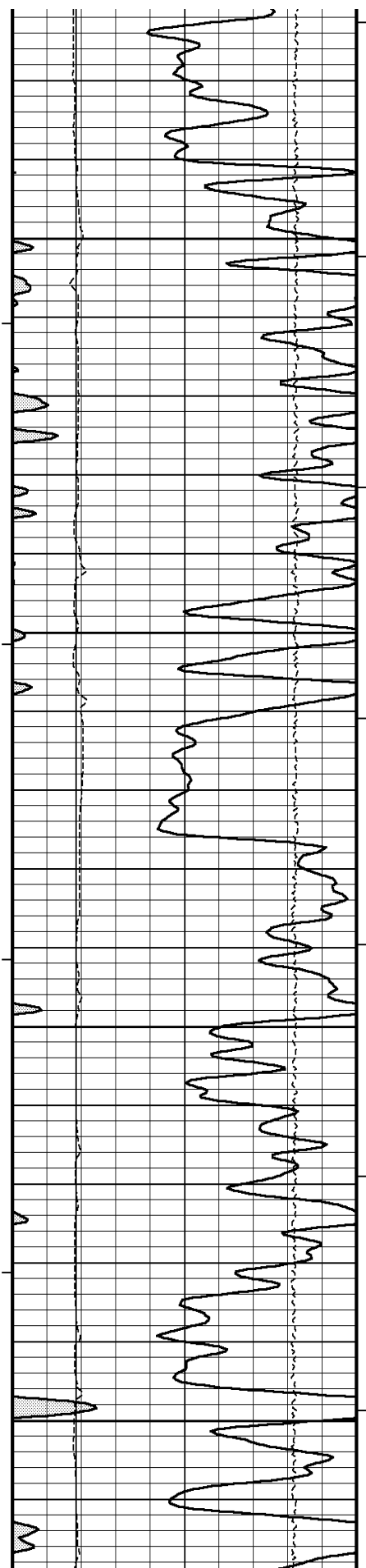
5850

163°

5900







166°

6150

167°

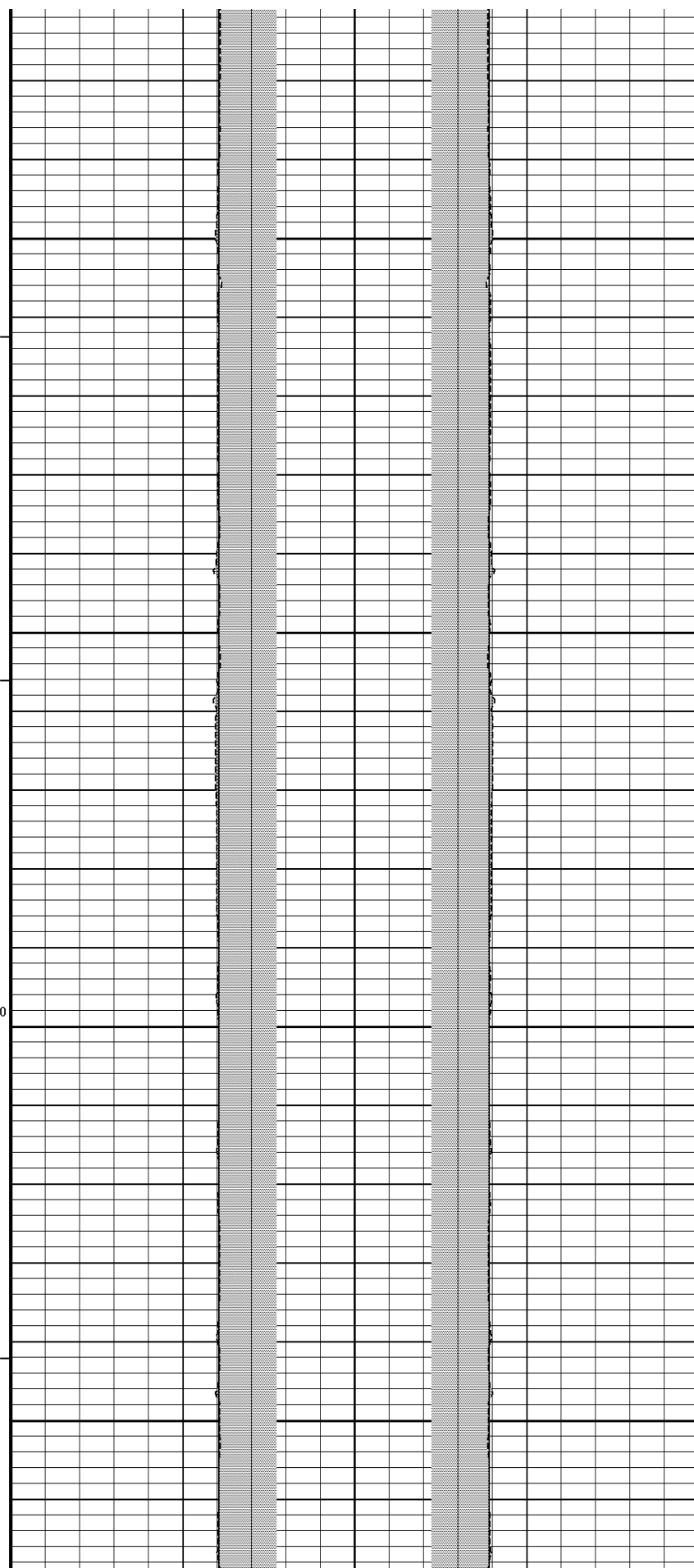
6200

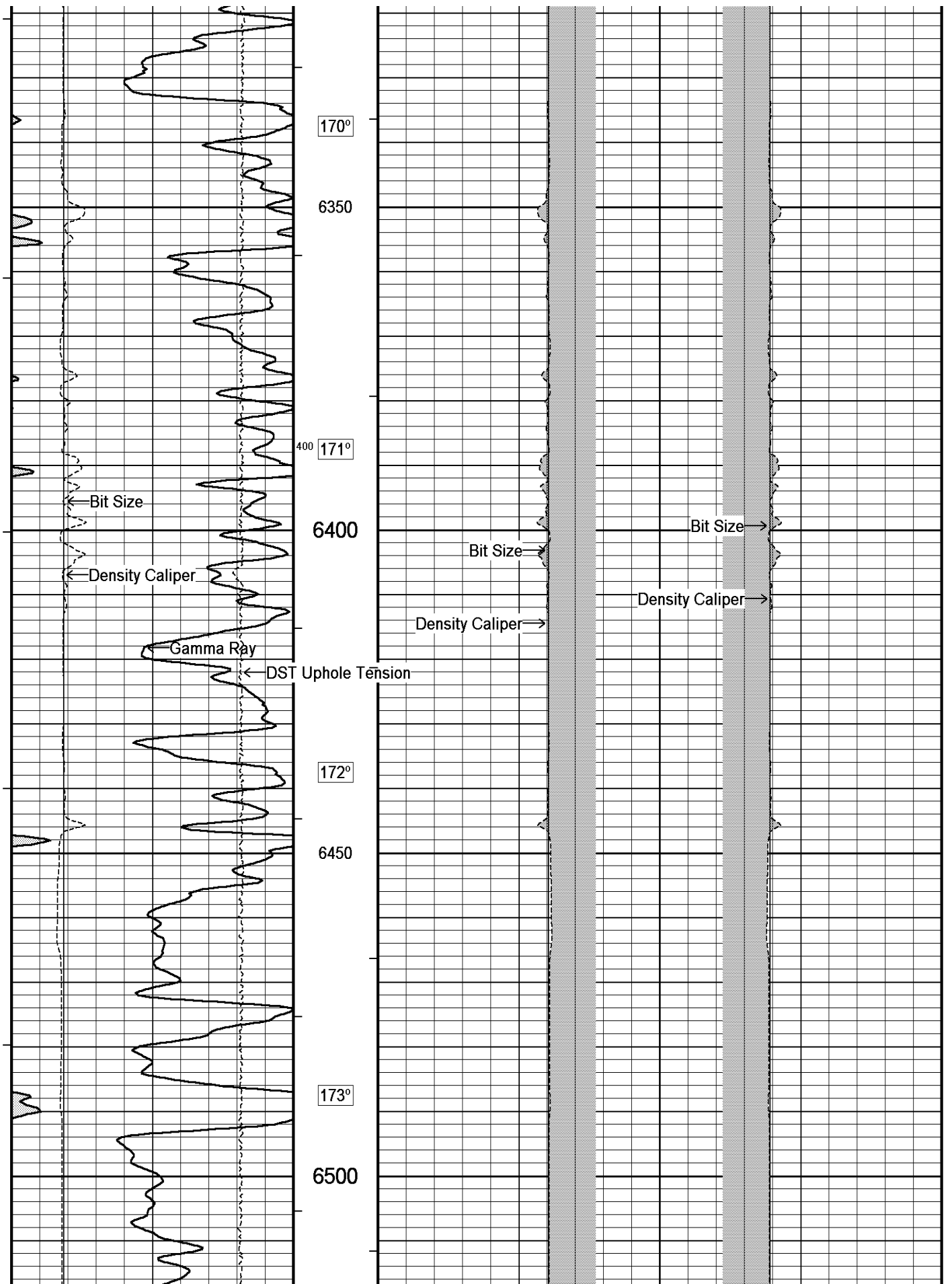
168°

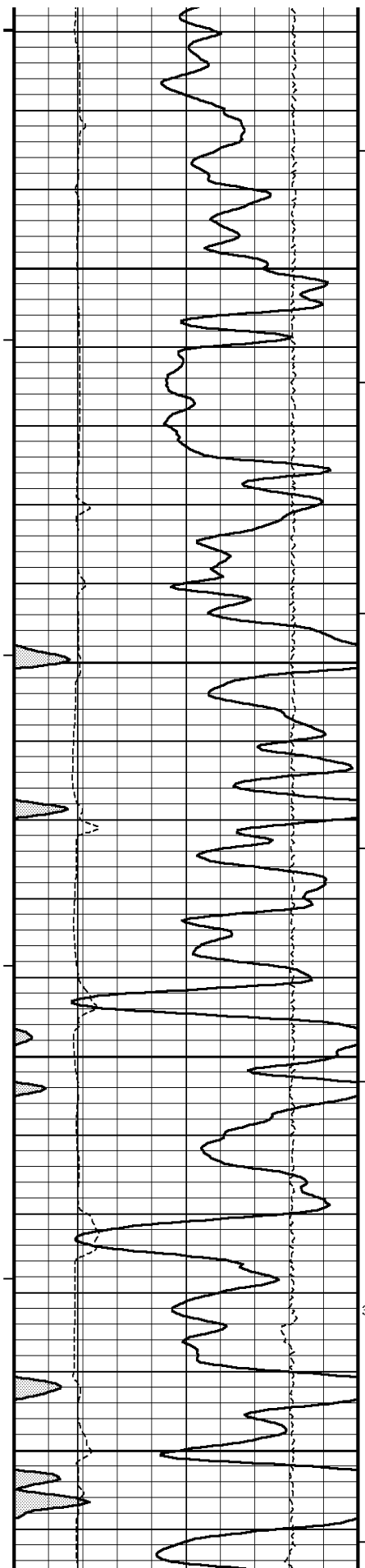
6250<sup>300</sup>

169°

6300







174°

6550

175°

6600

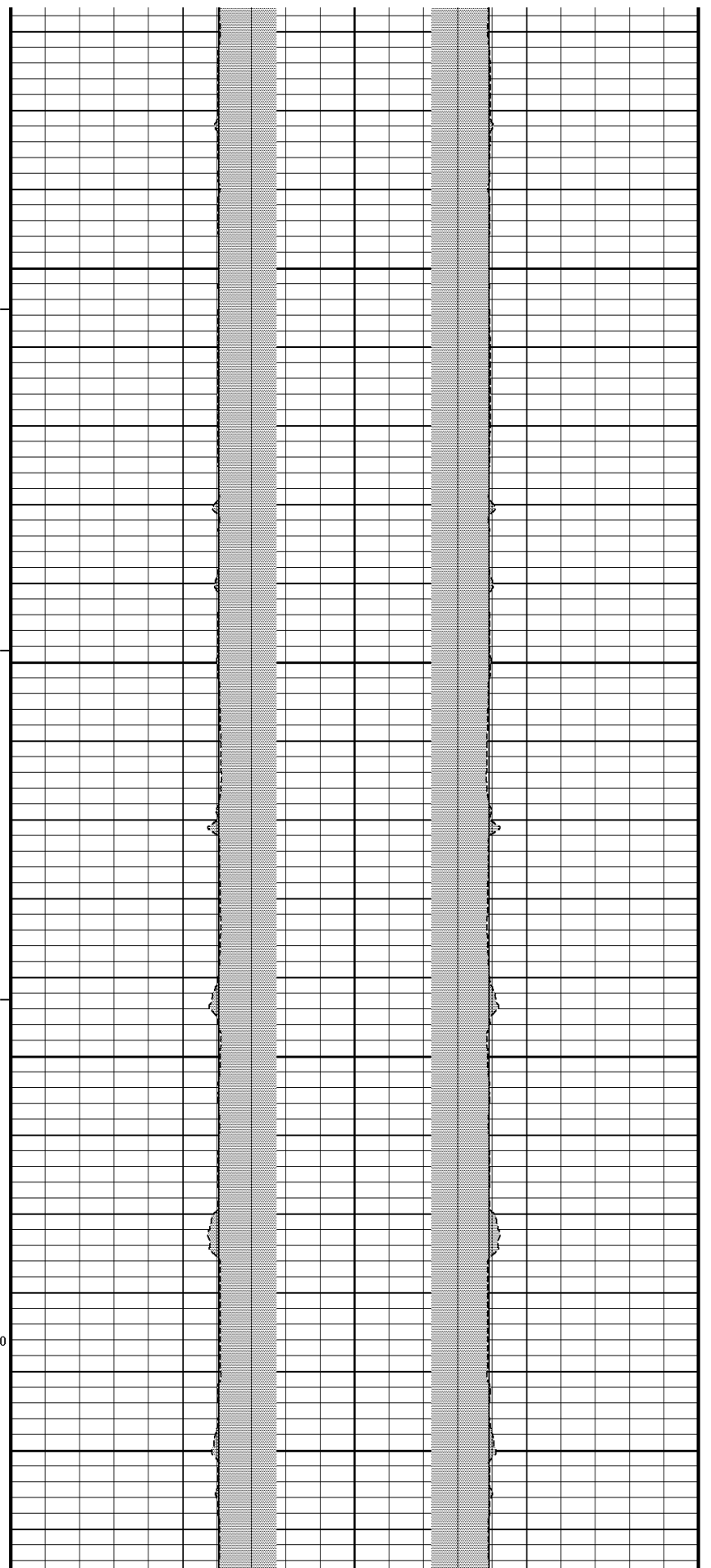
176°

6650

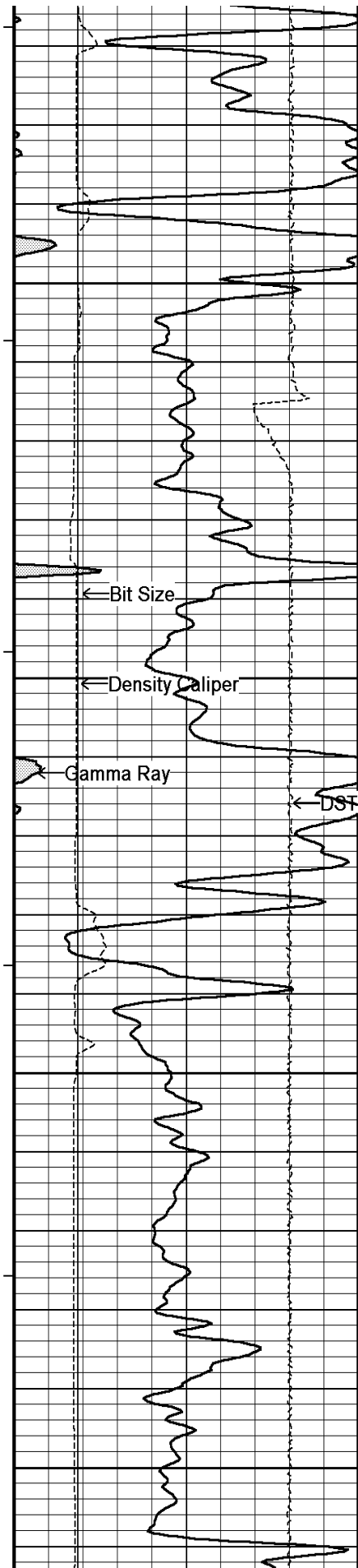
300

177° 200

6700







179°

6750

179°

6800

Gamma Ray

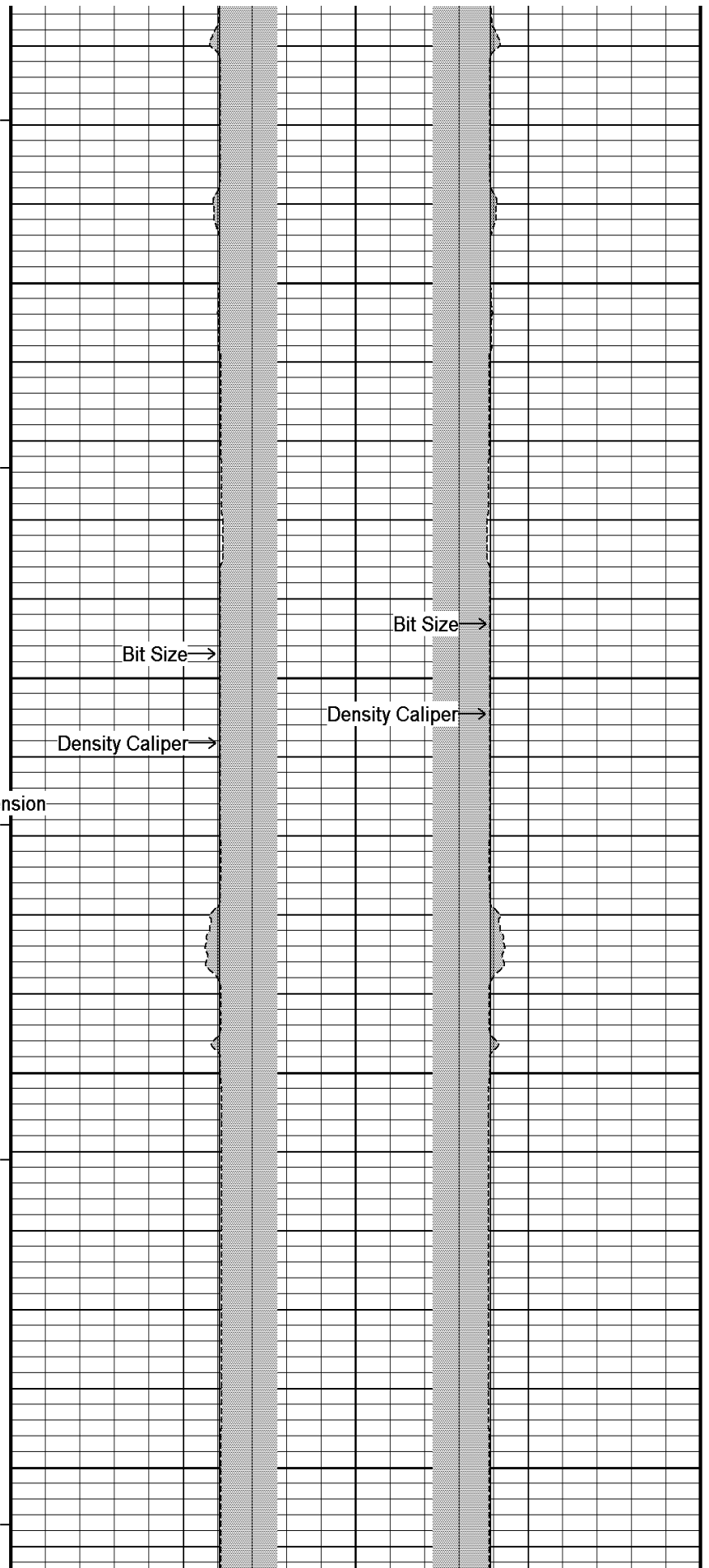
DST Uphole Tension

181°

6850

182°

6900

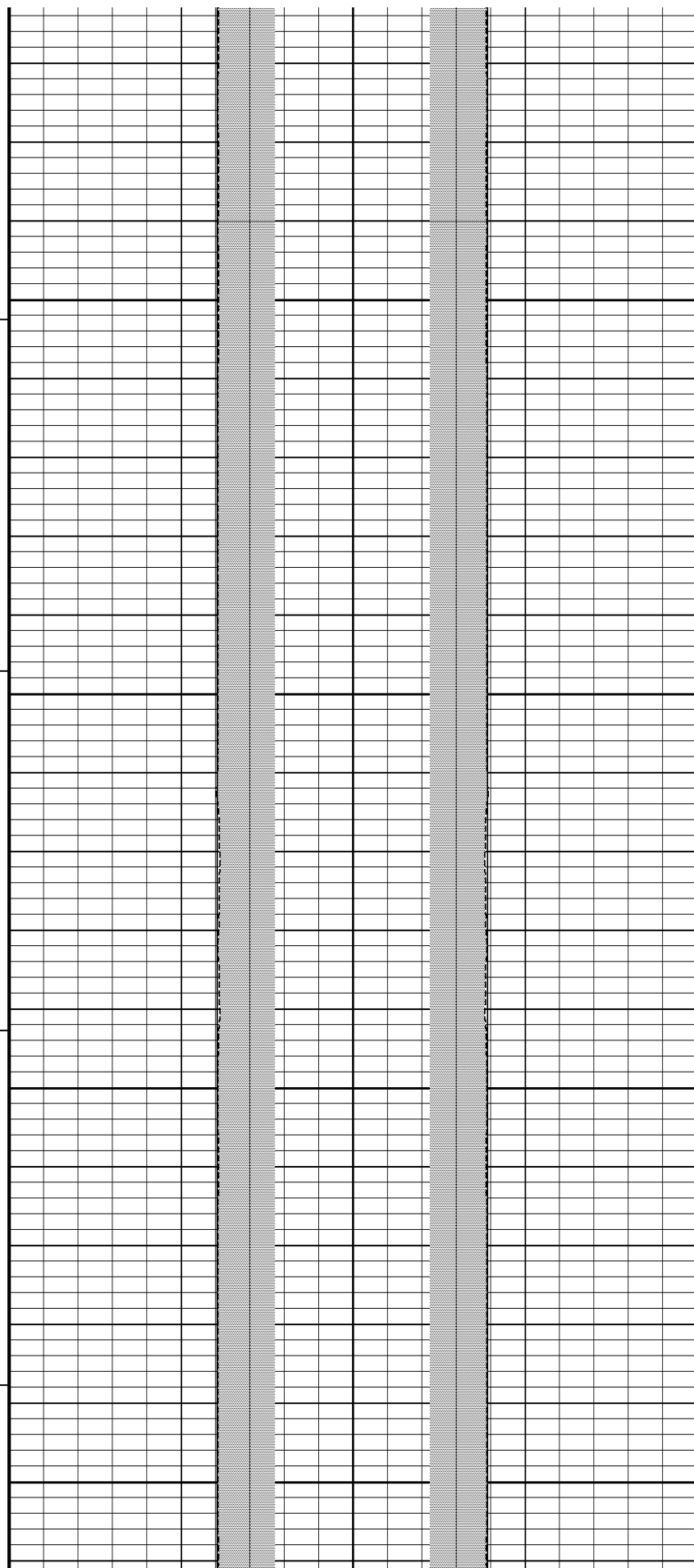
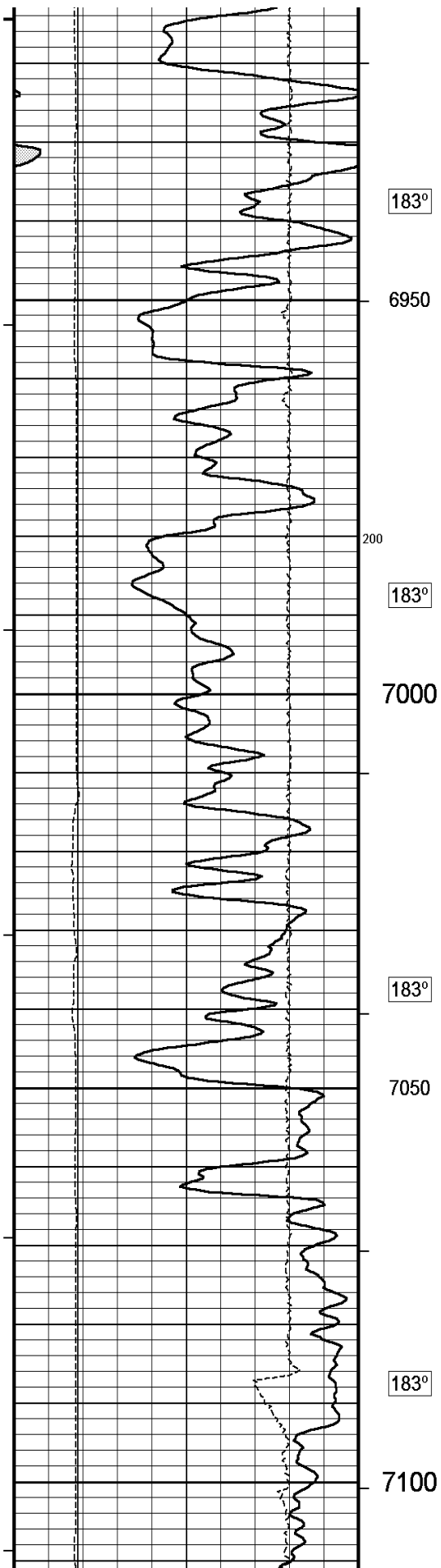


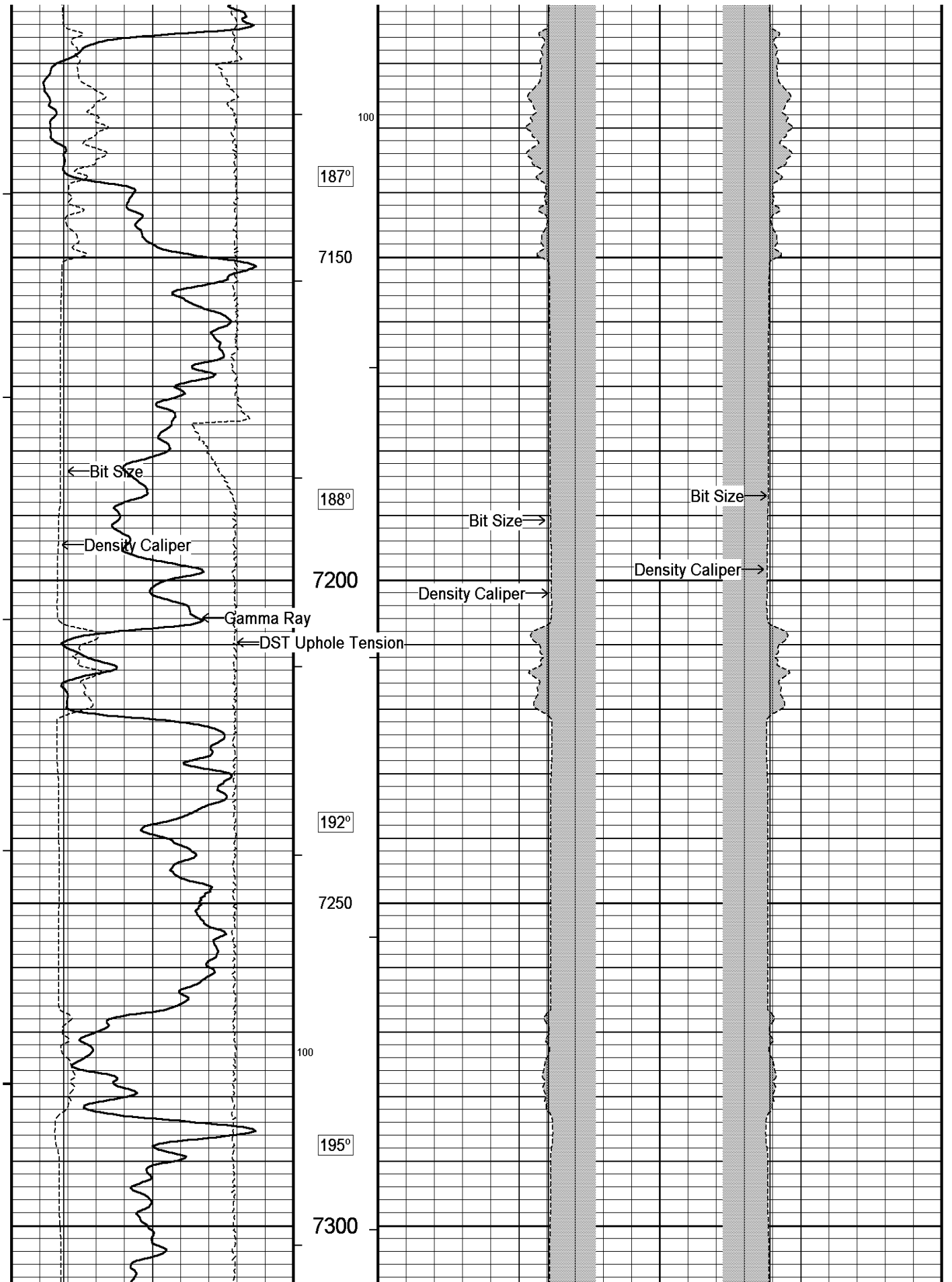
Bit Size

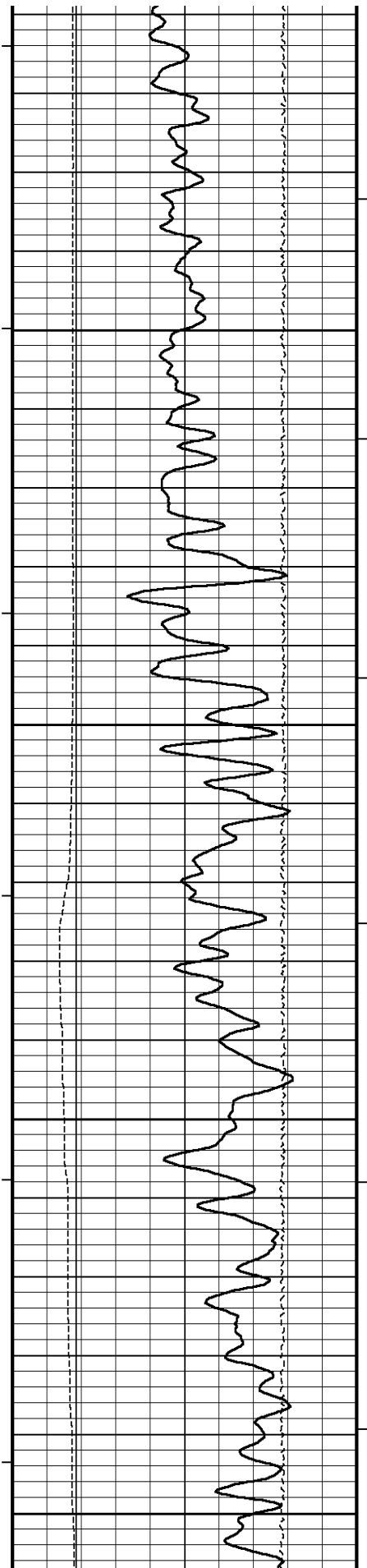
Density Caliper

Bit Size

Density Caliper







196°

7350

196°

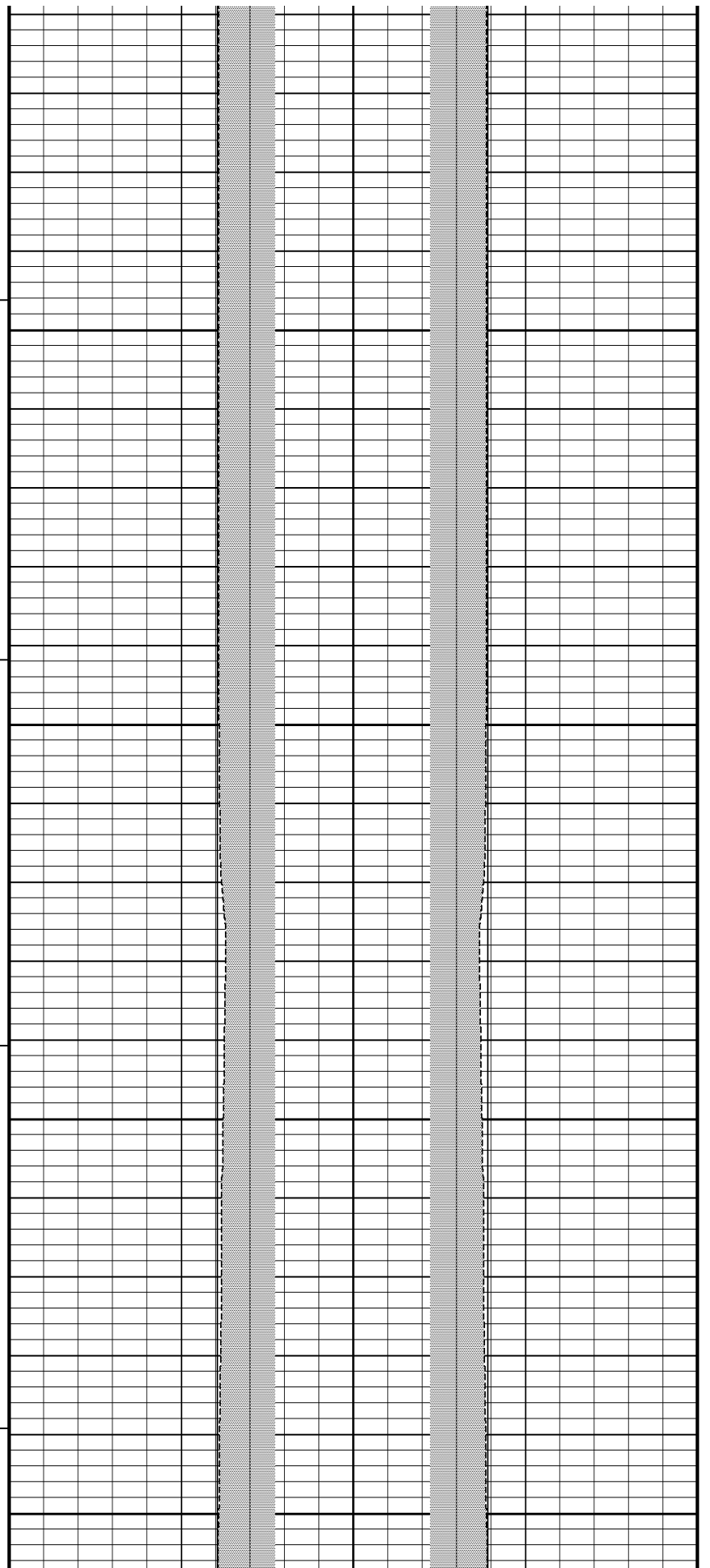
7400

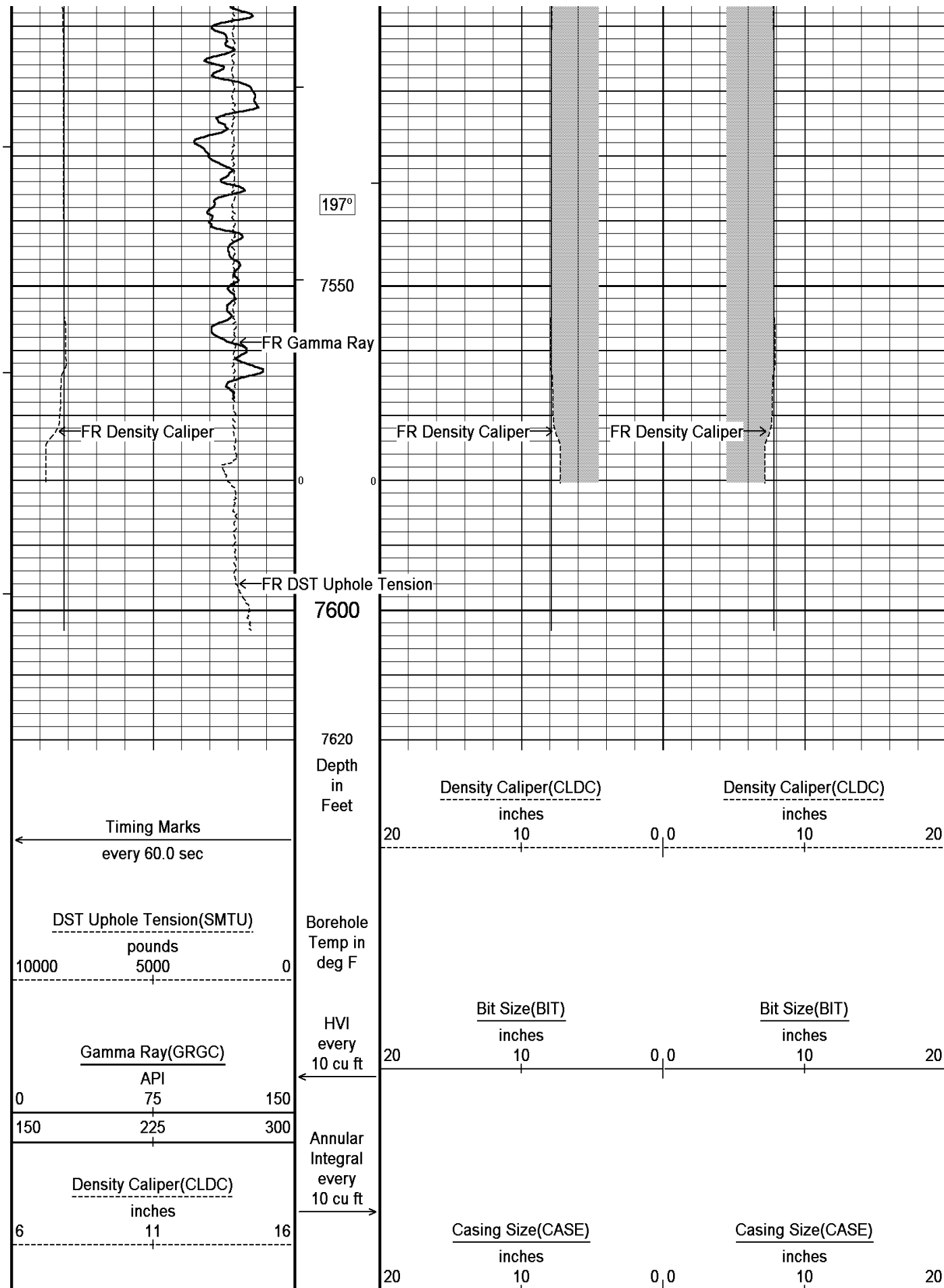
196°

7450

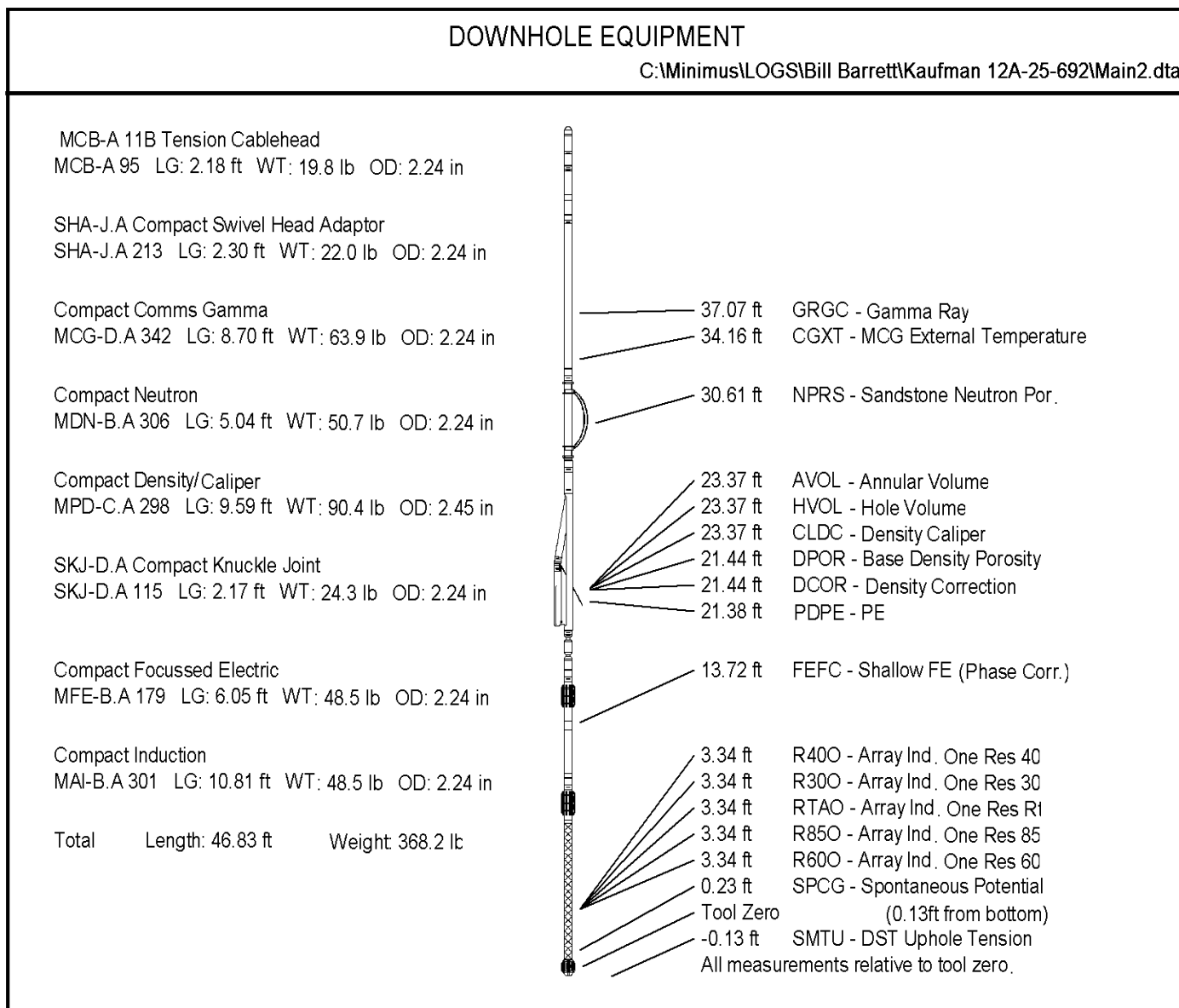
197°

7500





<u>Bit Size(BIT)</u> inches 6                      11                      16	Replay Scale 1:240	
Depth Based Data - Maximum Sampling Increment 10.0cm <span style="float: right;">Plotted on 03-JUL-2011 18:59</span> Filename: C:\Minimus\LOGS\Bill Barrett\Kaufman 12A-25-692\Main2.dta System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186		
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>↑</span> <span><b>5 INCH MAIN LOG</b></span> <span>↑</span> </div>		



COMPANY	BILL BARRETT CORPORATION
WELL	KAUFMAN 12A-25-692
FIELD	MAMM CREEK
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
Elevation Kelly Rushing	5945.00 feet
First Reading	7573.00

Elevation Kelly Casing	5918.00	feet	First Reading	7578.00	
Elevation Drill Floor	5944.00	feet	Depth Driller	7602.00	feet
Elevation Ground Level	5922.00	feet	Depth Logger	7596.00	feet



**Weatherford®**

# HOLE VOLUME CALIPER LOG

