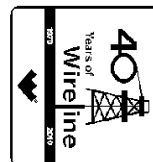




**Weatherford**

**HOLE VOLUME  
CALIPER LOG**

COMPANY **BILL BARRETT CORPORATION**  
WELL **GGU DALEY 24C-19-691**  
FIELD **GIBSON GULCH**  
PROVINCE/COUNTY **GARFIELD**  
COUNTRY/STATE **U.S.A. / COLORADO**  
LOCATION **SHL: 332' FSL & 2006' FWL**  
**BHL: 830' FSL & 1980' FWL**



SEC 19 TWP 6S RGE 91W  
API Number 05-045-19585  
Permit Number  
Other Services  
MPD/MDN  
MAI/MFE

Permanent Datum G.L., Elevation 5824 feet  
Log Measured From K.B. @ 23 FEET above Permanent Datum  
Drilling Measured From K.B.

Elevations:  
KB 5847.00  
DF 5846.00  
GL 5824.00

Date	10-JUN-2011		
Run Number	ONE		
Depth Driller	7350.00	feet	
Depth Logger	7355.00	feet	
First Reading	7332.00		
Last Reading	813.00		
Casing Driller	811.00	feet	
Casing Logger	813.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	LSND		
Density / Viscosity	10.90 lb/USg	50.00 CP	
PH / Fluid Loss	9.40	5.00 ml/30Min	
Sample Source	FLOW LINE		
Rm @ Measured Temp	2.43 @ 96.8	ohm-m	
Rmf @ Measured Temp	1.94 @ 96.8	ohm-m	
Rmc @ Measured Temp	2.92 @ 96.8	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.258 @ 190.0	ohm-m	
Time Since Circulation	4 HOURS		
Max Recorded Temp	190.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	13045	GD JCT	
Recorded By	D. KUNTZ		D. NAASZ
Witnessed By	C. CROW		

**BOREHOLE RECORD**

Last Edited: 10-JUN-2011 21:40

Bit Size inches	Depth From feet	Depth To feet
8.750	813.00	5307.00
7.875	5307.00	7355.00

**CASING RECORD**

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	813.00	36.00

**REMARKS**

WLS SOFTWARE VERSION 11.02.3186

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 STANDOFFS USED ON MFE.  
DUAL BOWSPRING USED ON NEUTRON.

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY

2.00 G/GC 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.

UNDERGAUGE CALIPER READINGS WERE REPEATED OVER THE FOLLOWING SECTIONS WITH NO CHANGE IN LOG RESPONSE:  
6720 TO 6750 AND 6380 TO 6410 FEET.

CALIPER CHECK IN CASING PRESENTED, REFERENCE I.D. = 9.10" (9 5/8", 36 LB/FT CASING)

MAXIMUM WELL DEVIATION 11.7 DEG

8.75 INCH BIT USED FROM SURFACE CASING TO 5307 FEET.

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2710 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 1990 CU.FT.

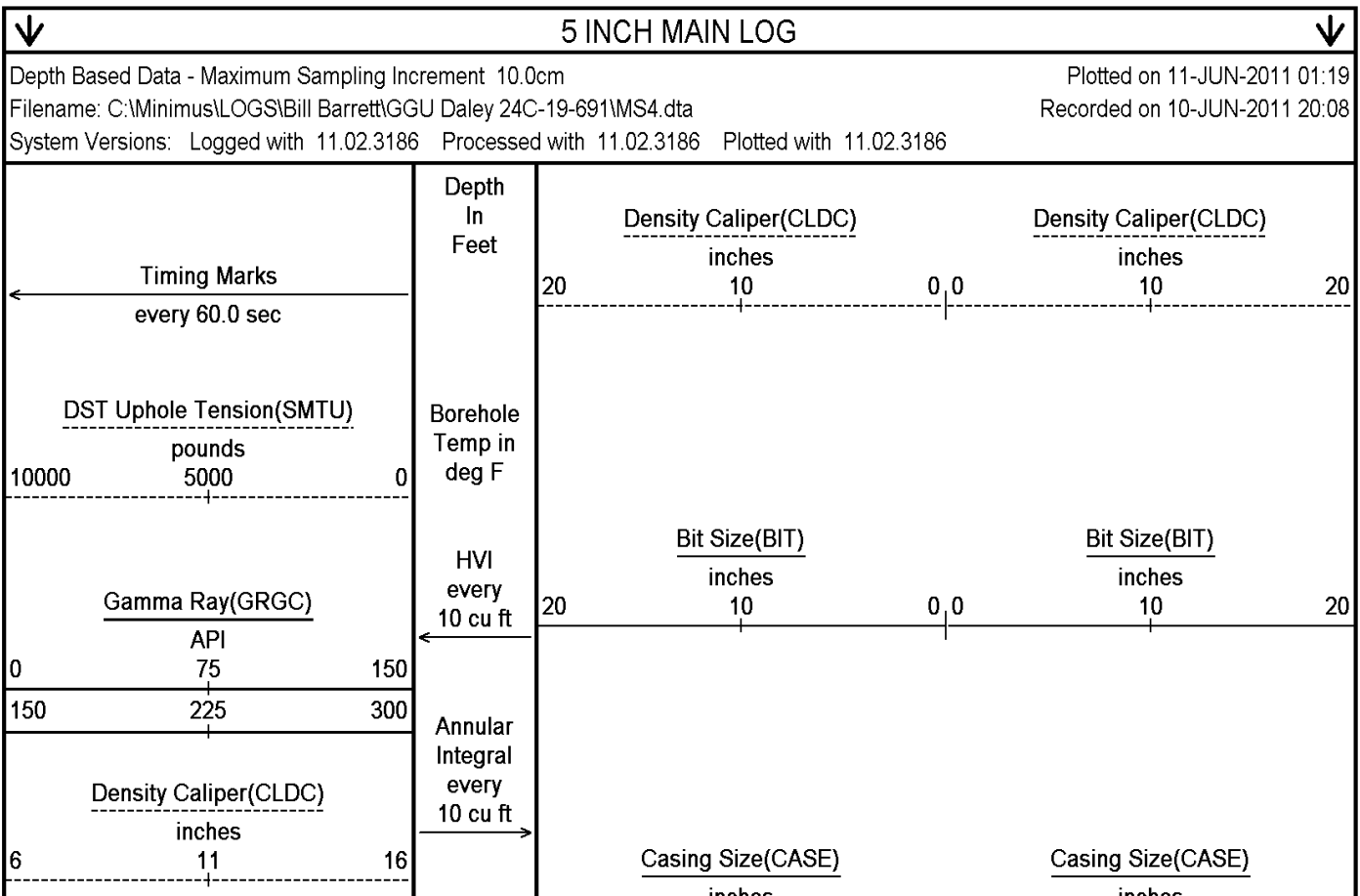
ENGINEER(S): D. KUNTZ, D. NAASZ(JFE)

OPERATOR(S): L. STAAKE

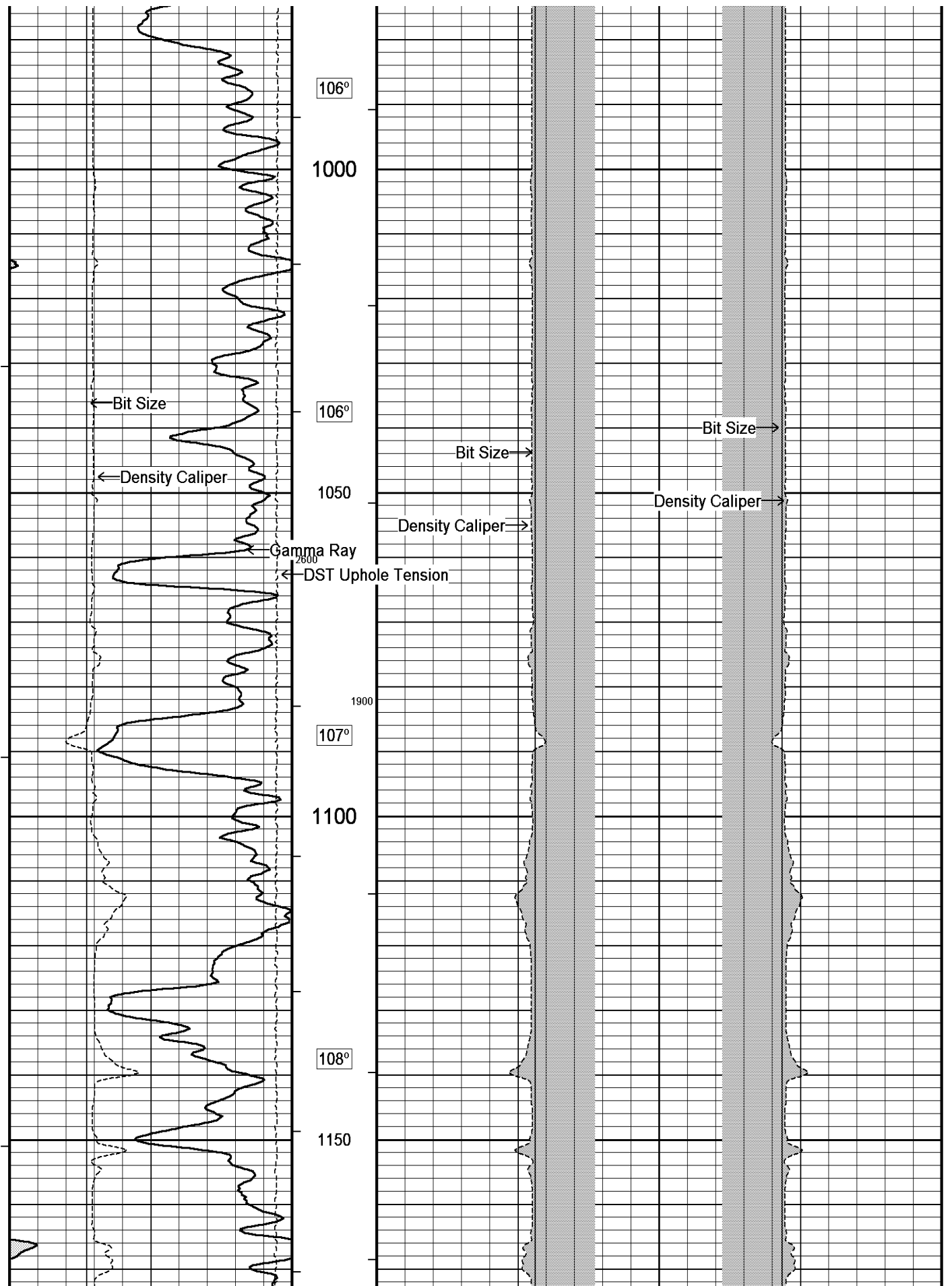
SERVICE ORDER: # 3524775

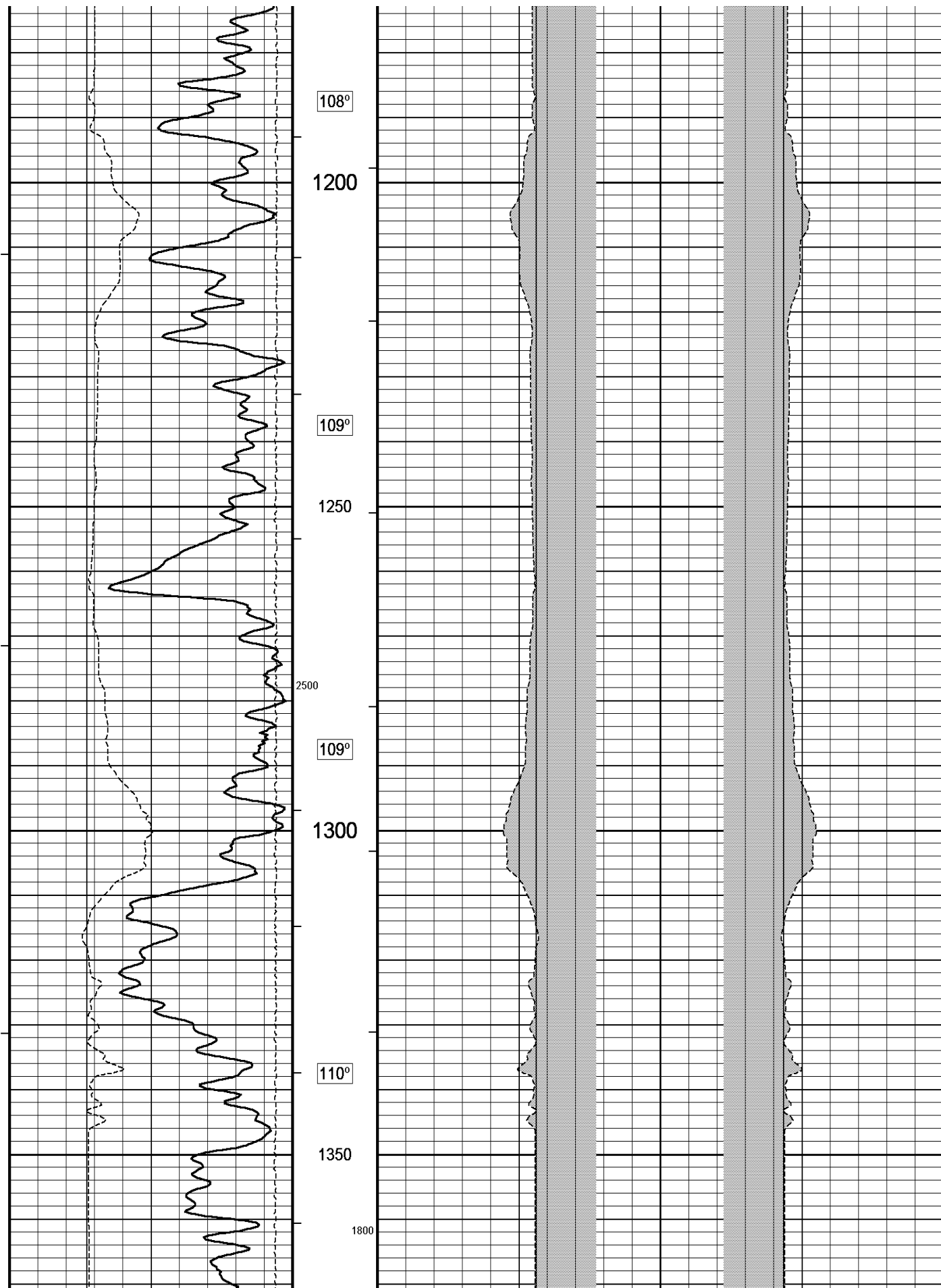
RIG: PATTERSON #307

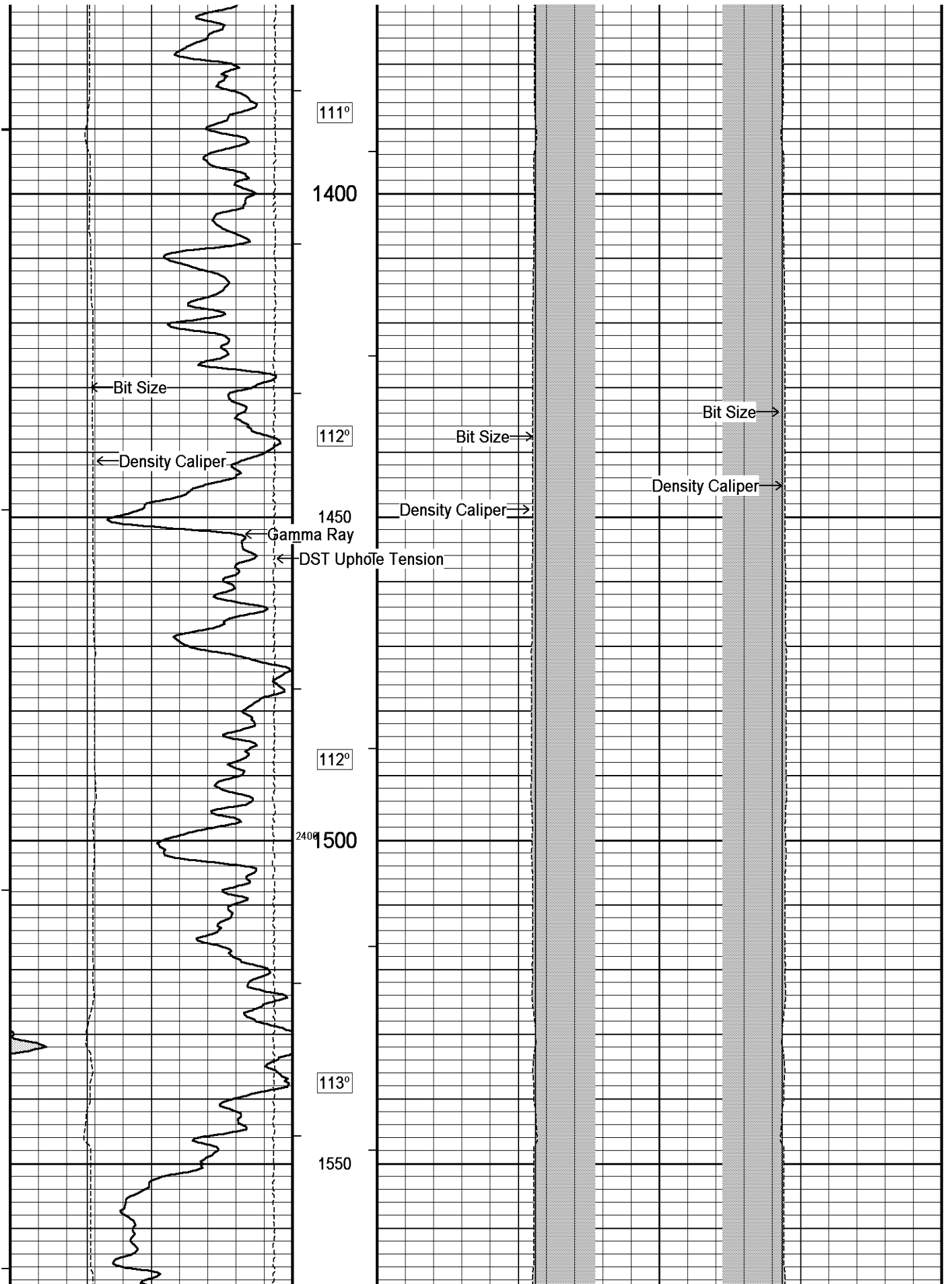
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs,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

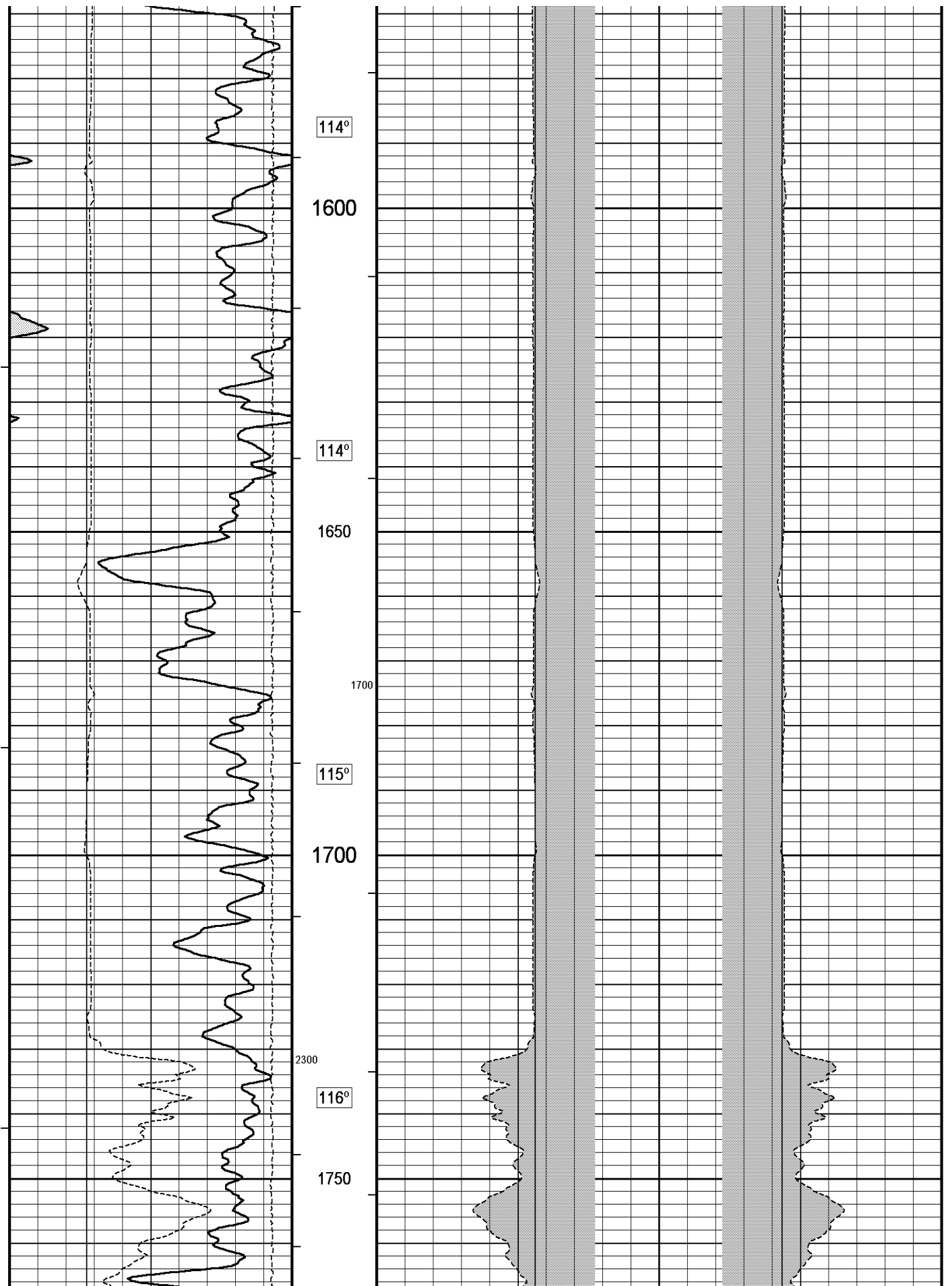


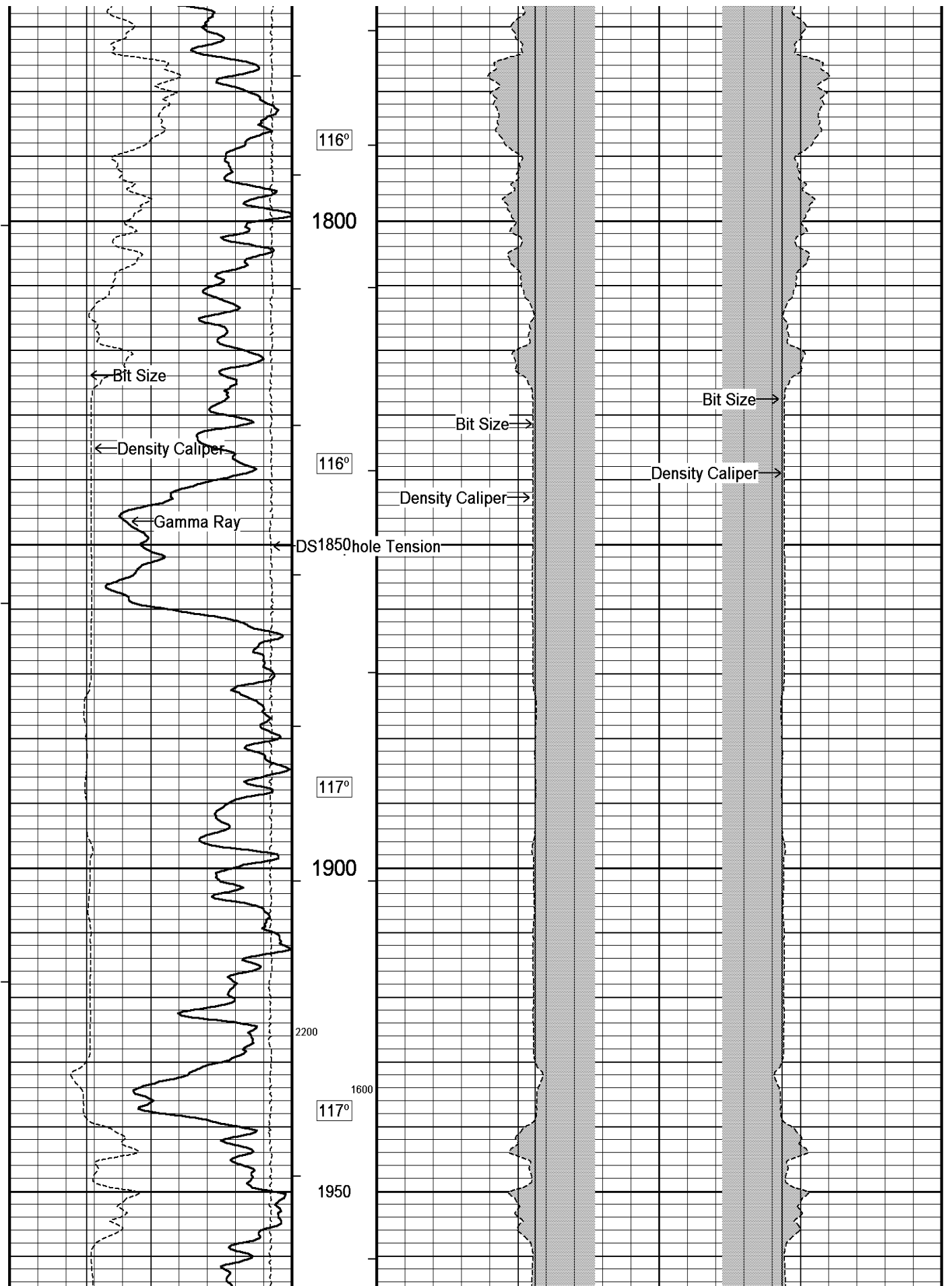


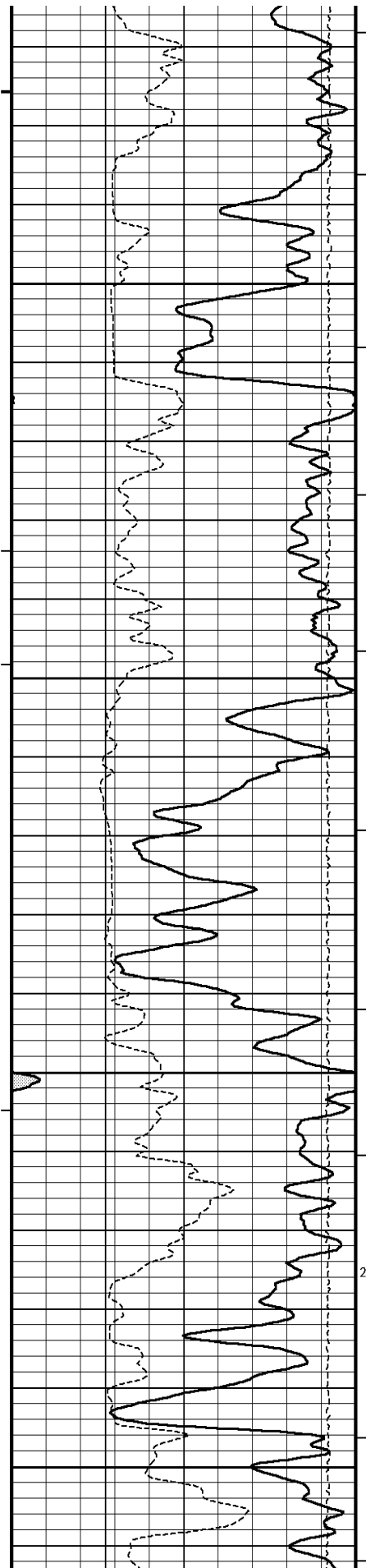












117°

2000

117°

2050

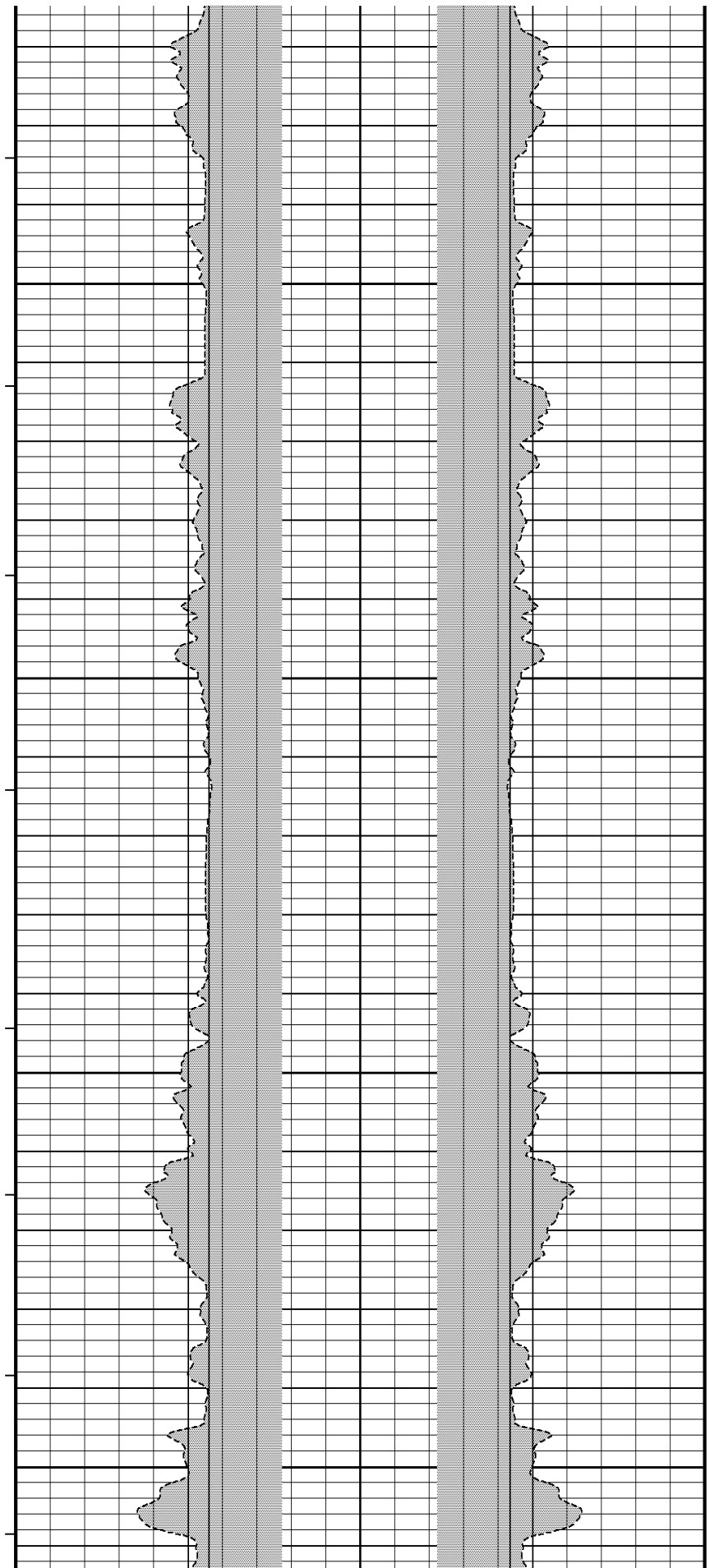
118°

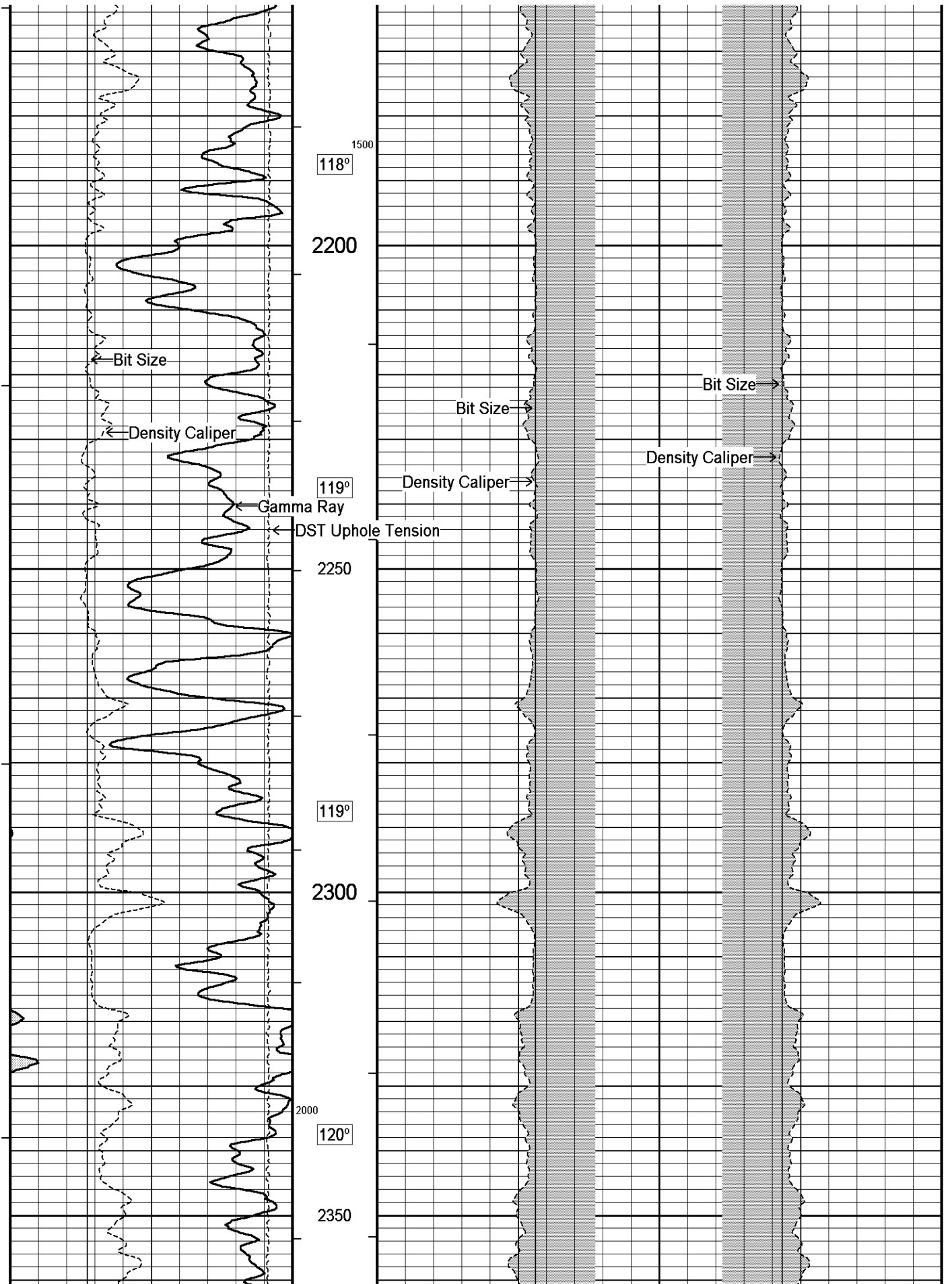
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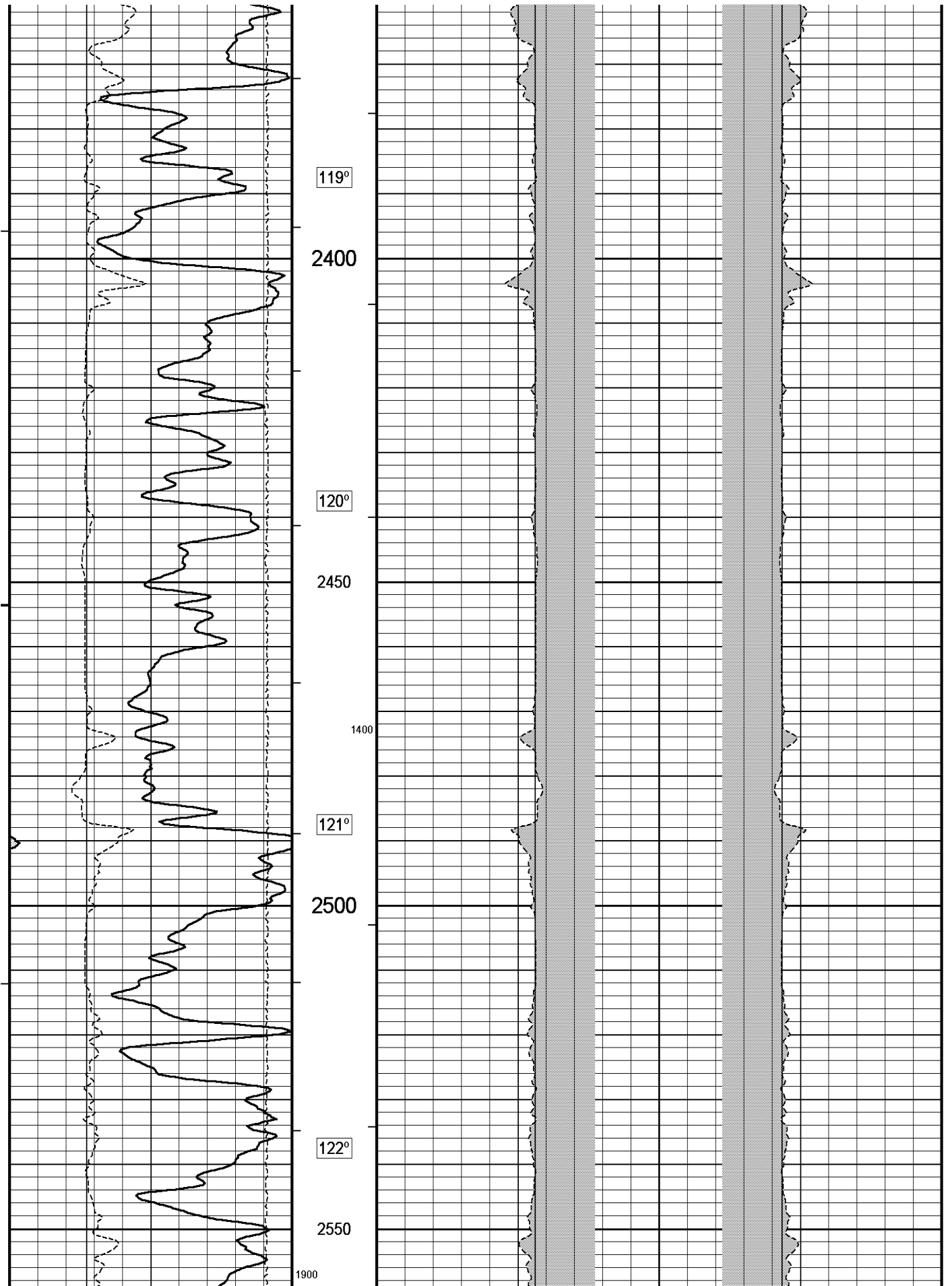
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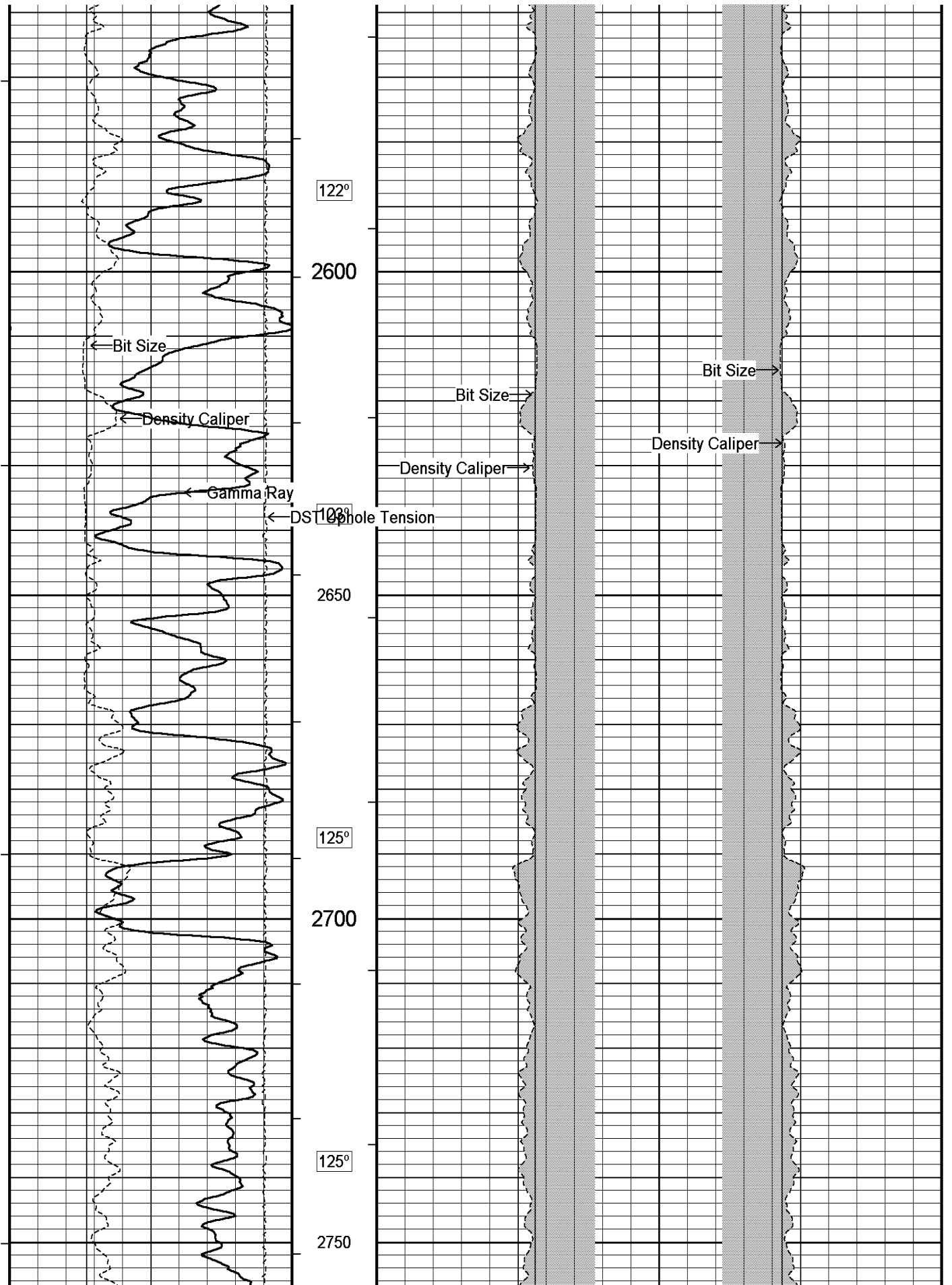
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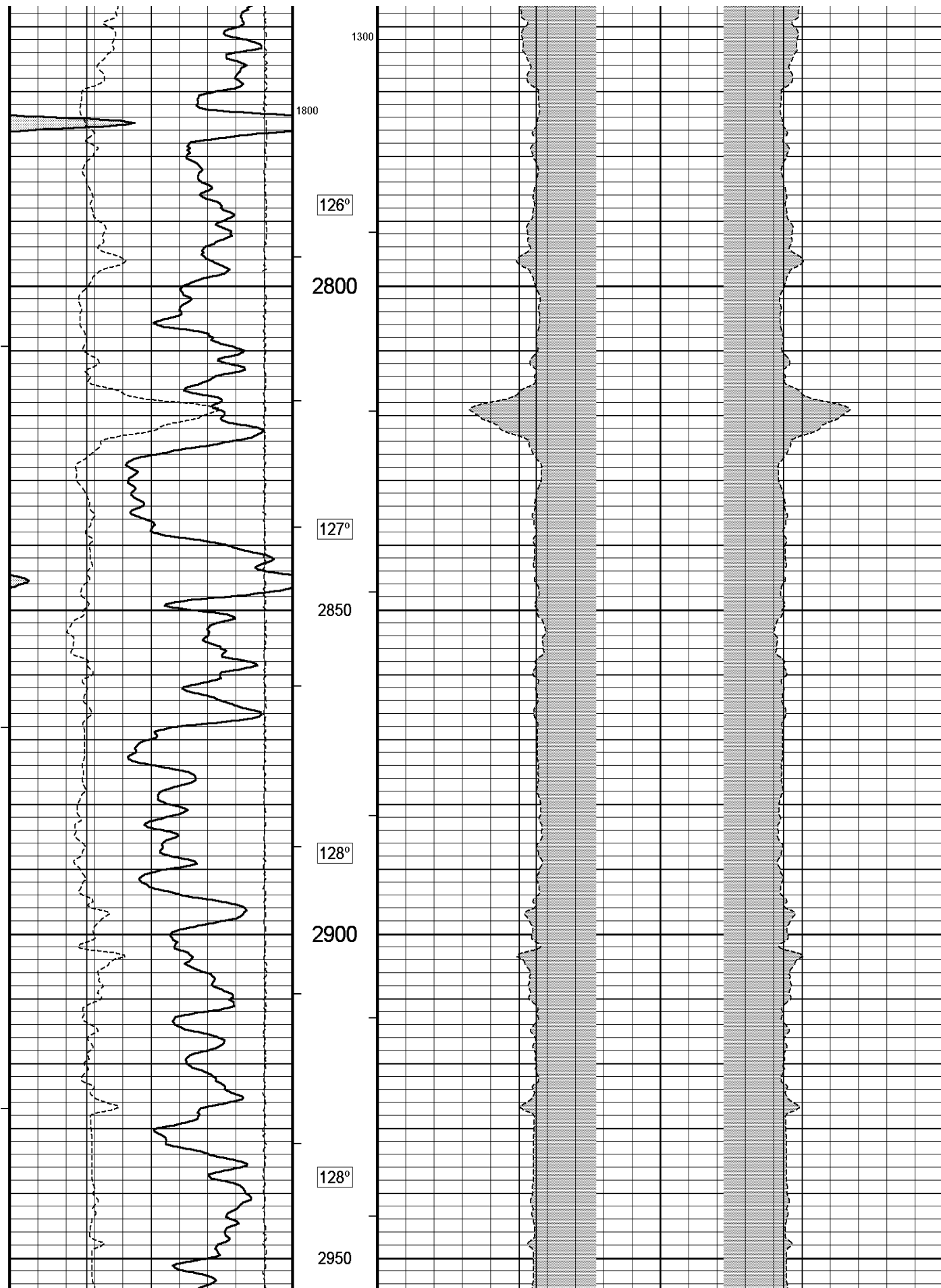
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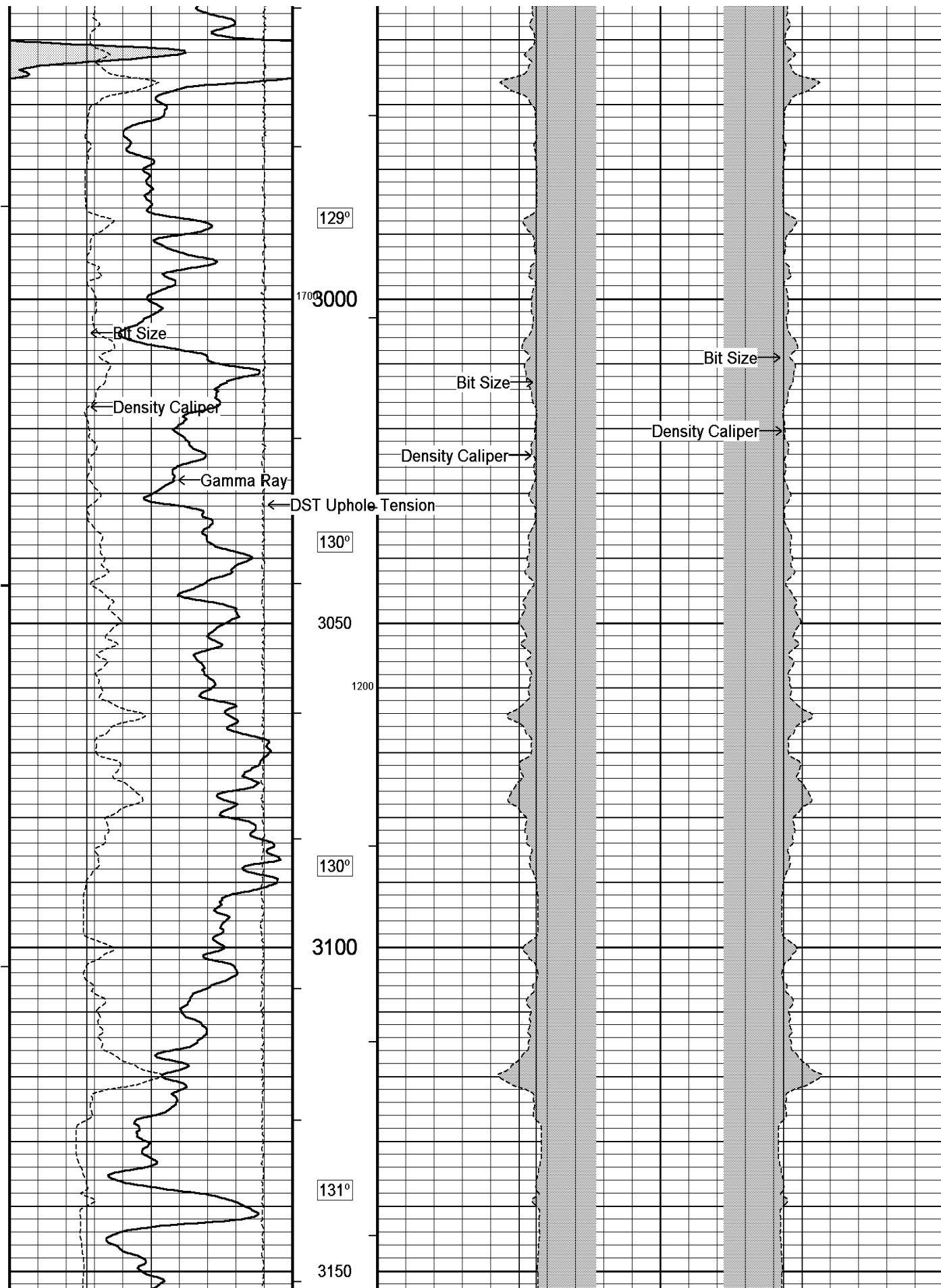


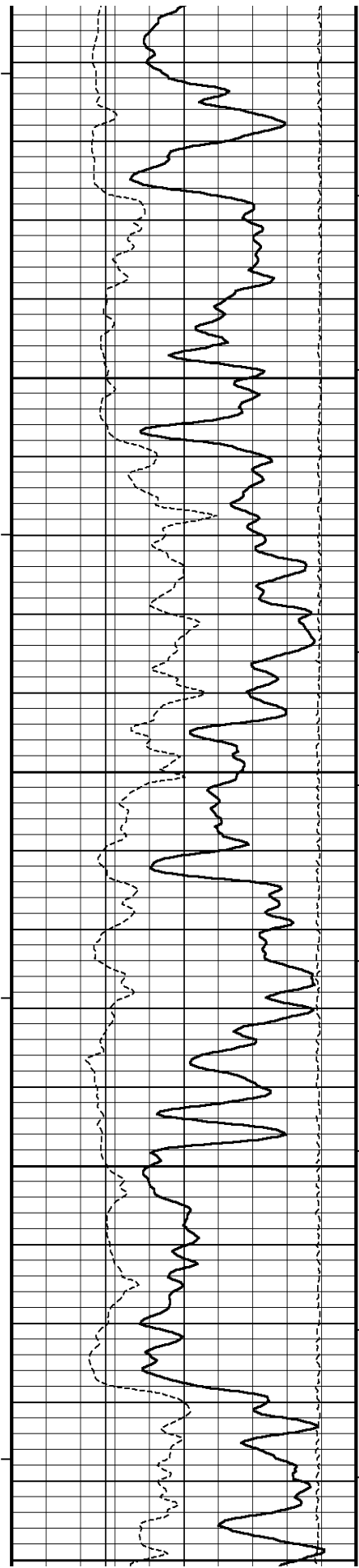












132°

3200

1600

132°

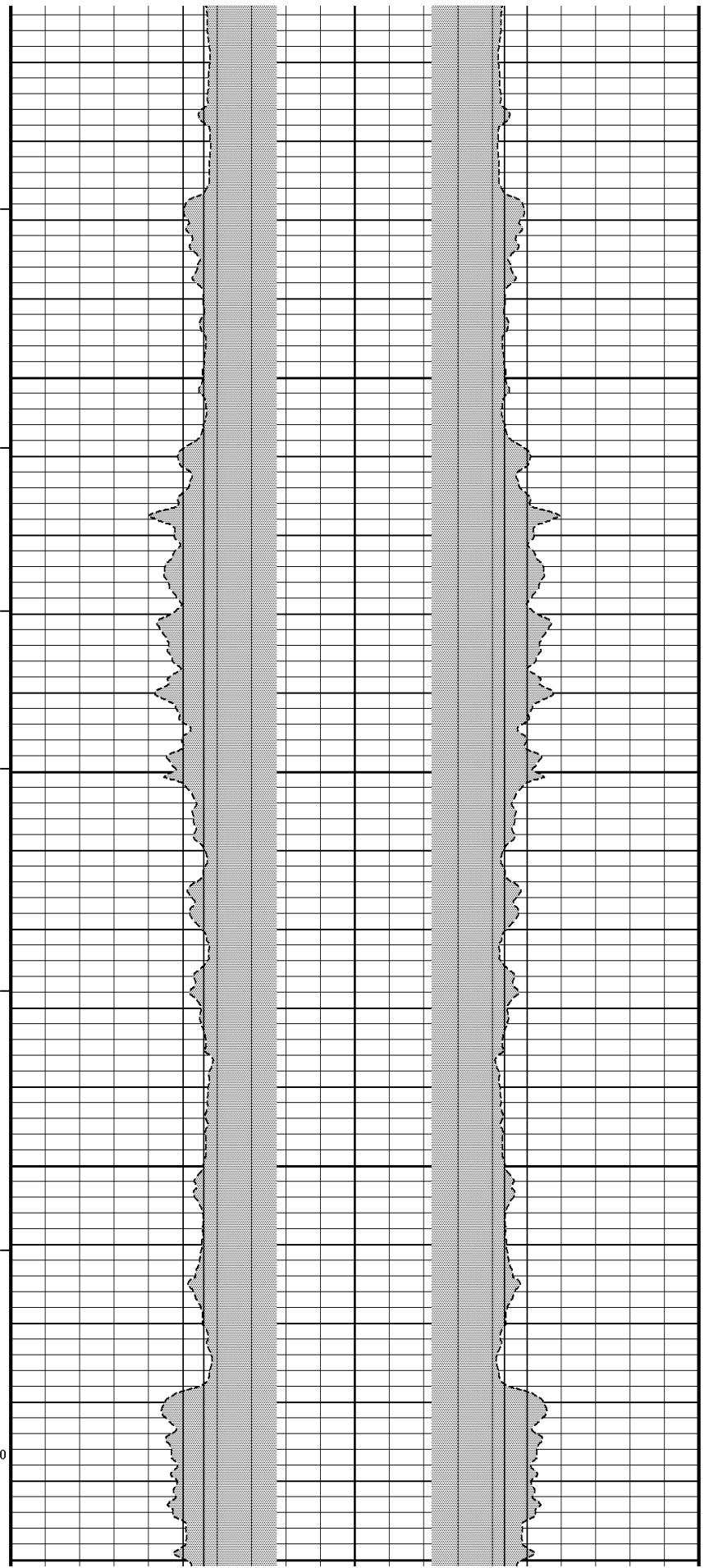
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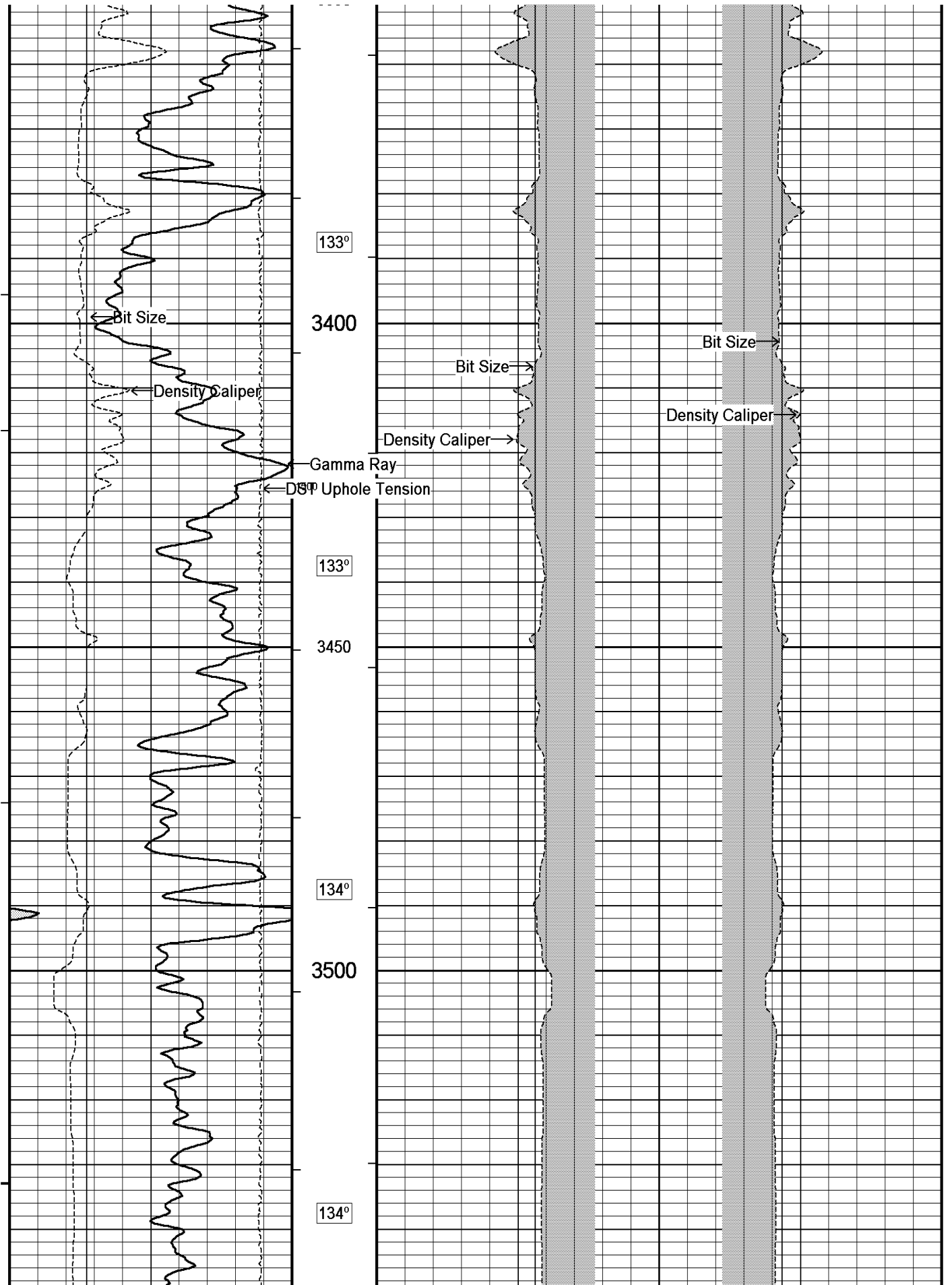
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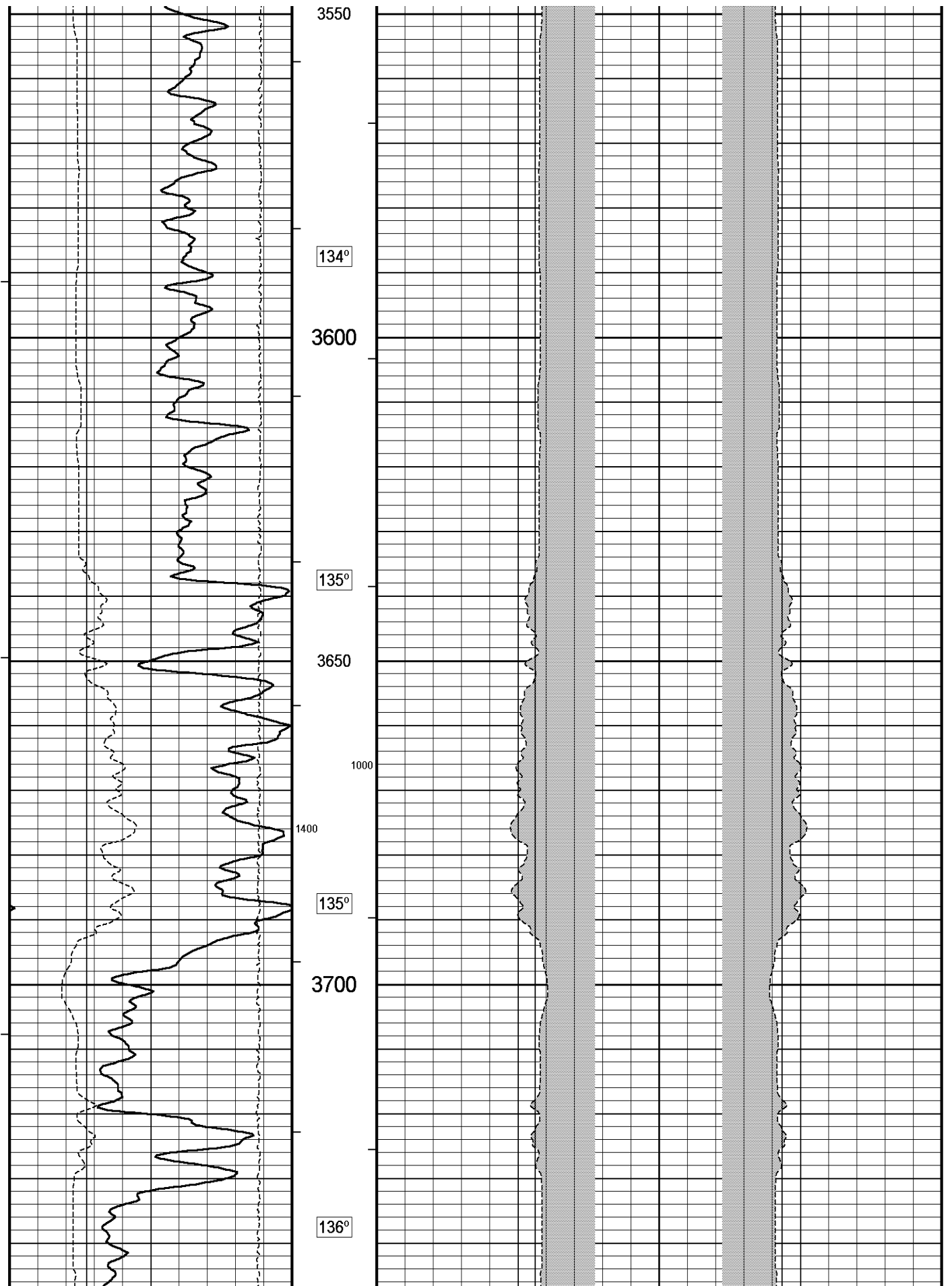
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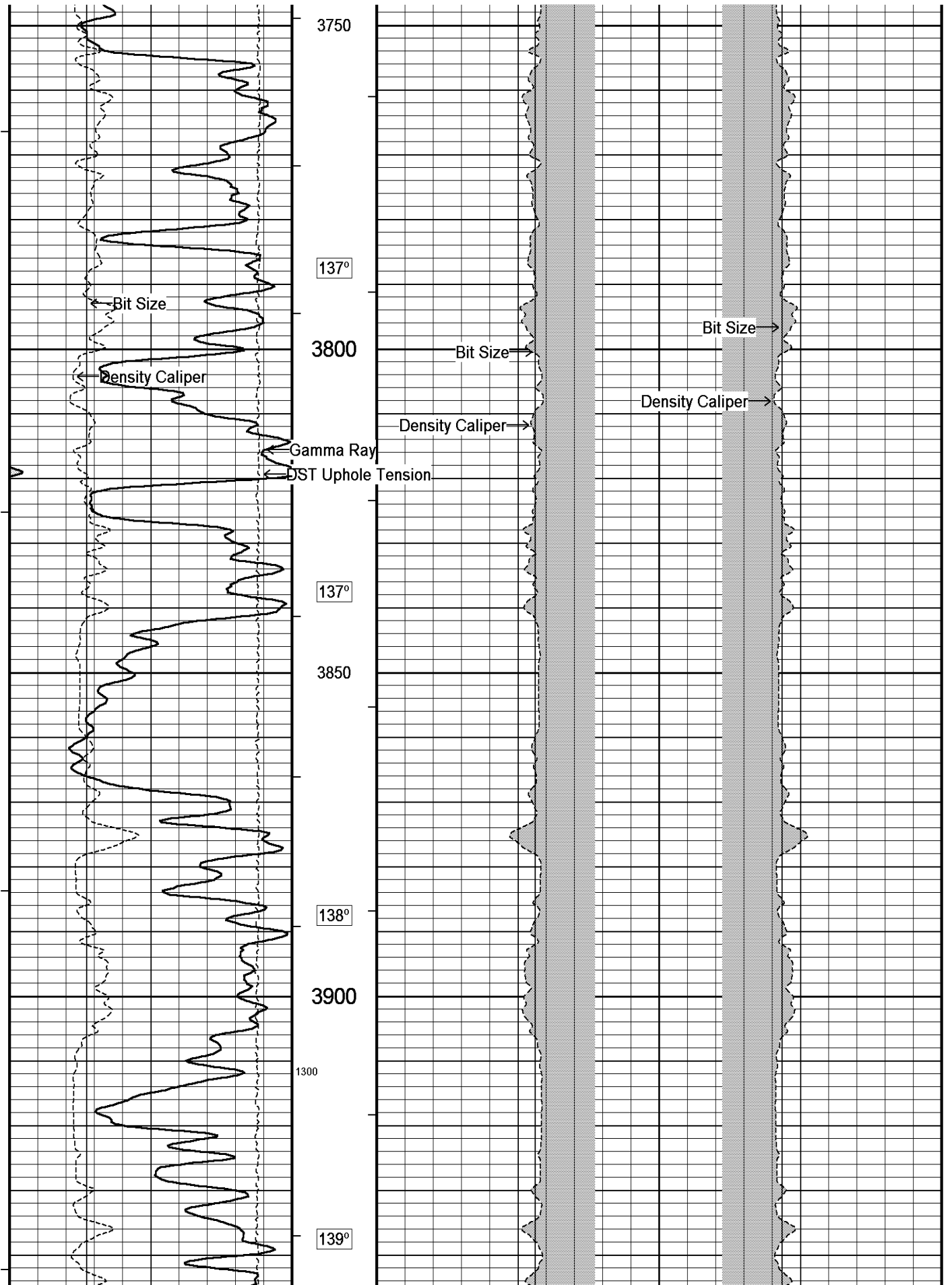
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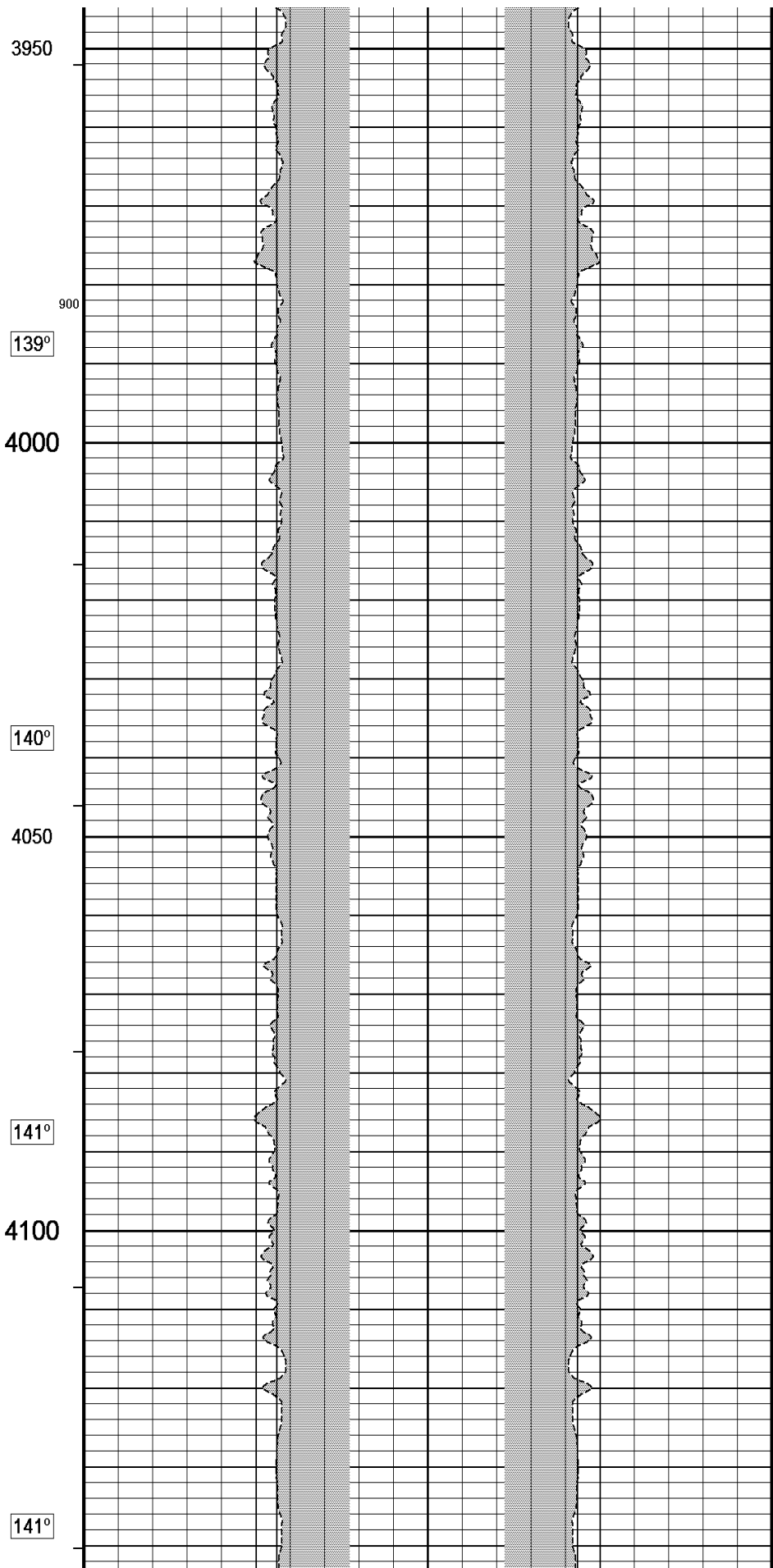
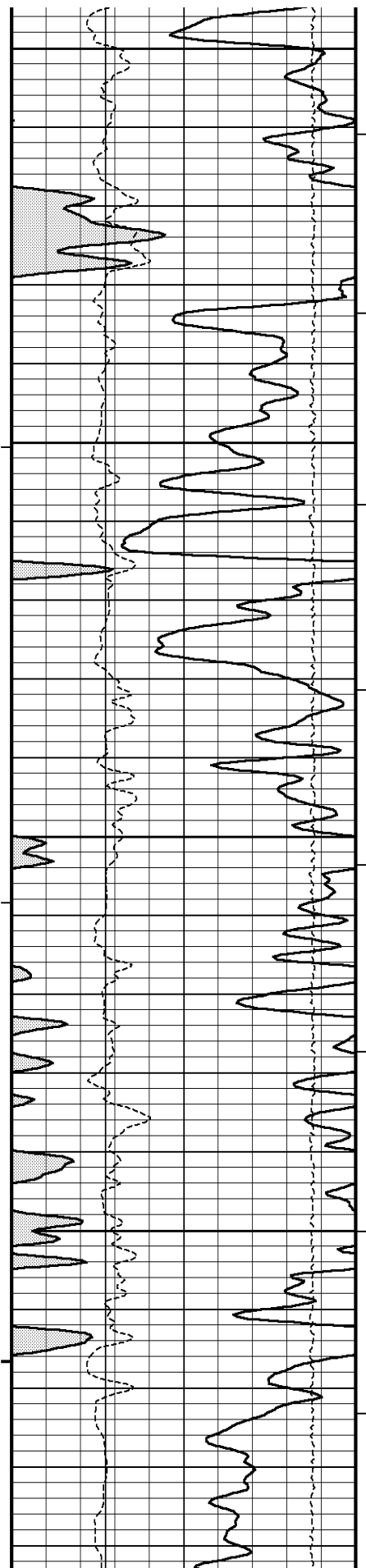
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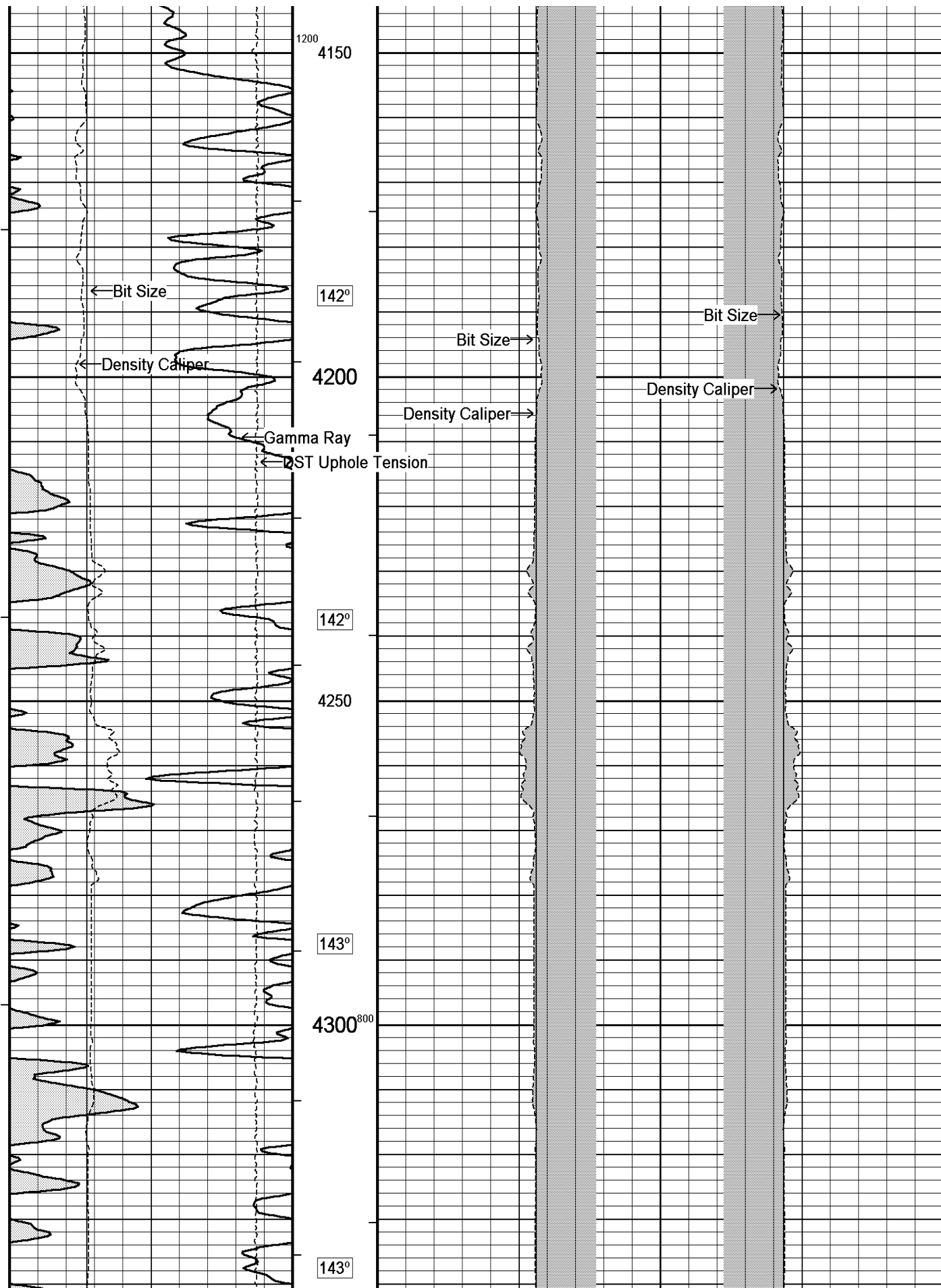


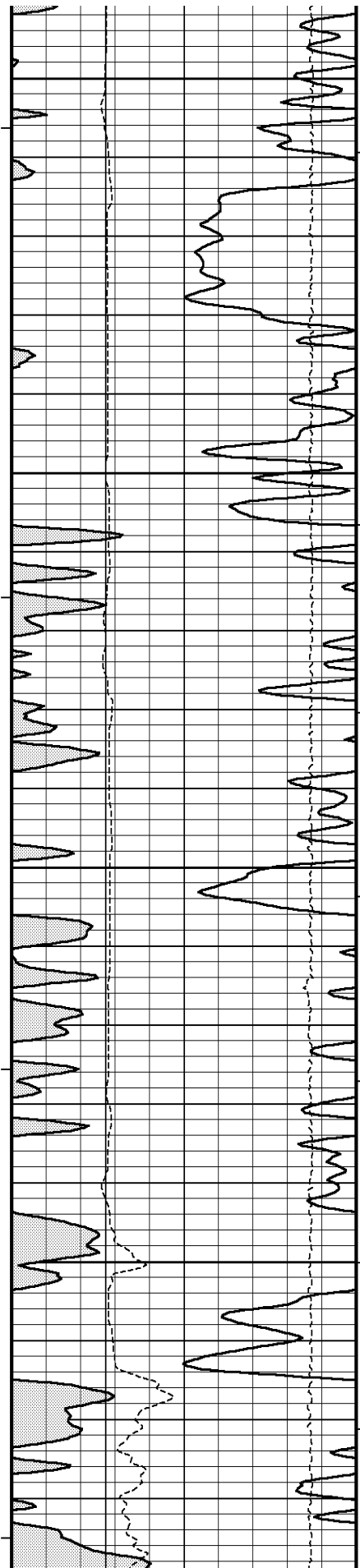












4350

1100

144°

4400

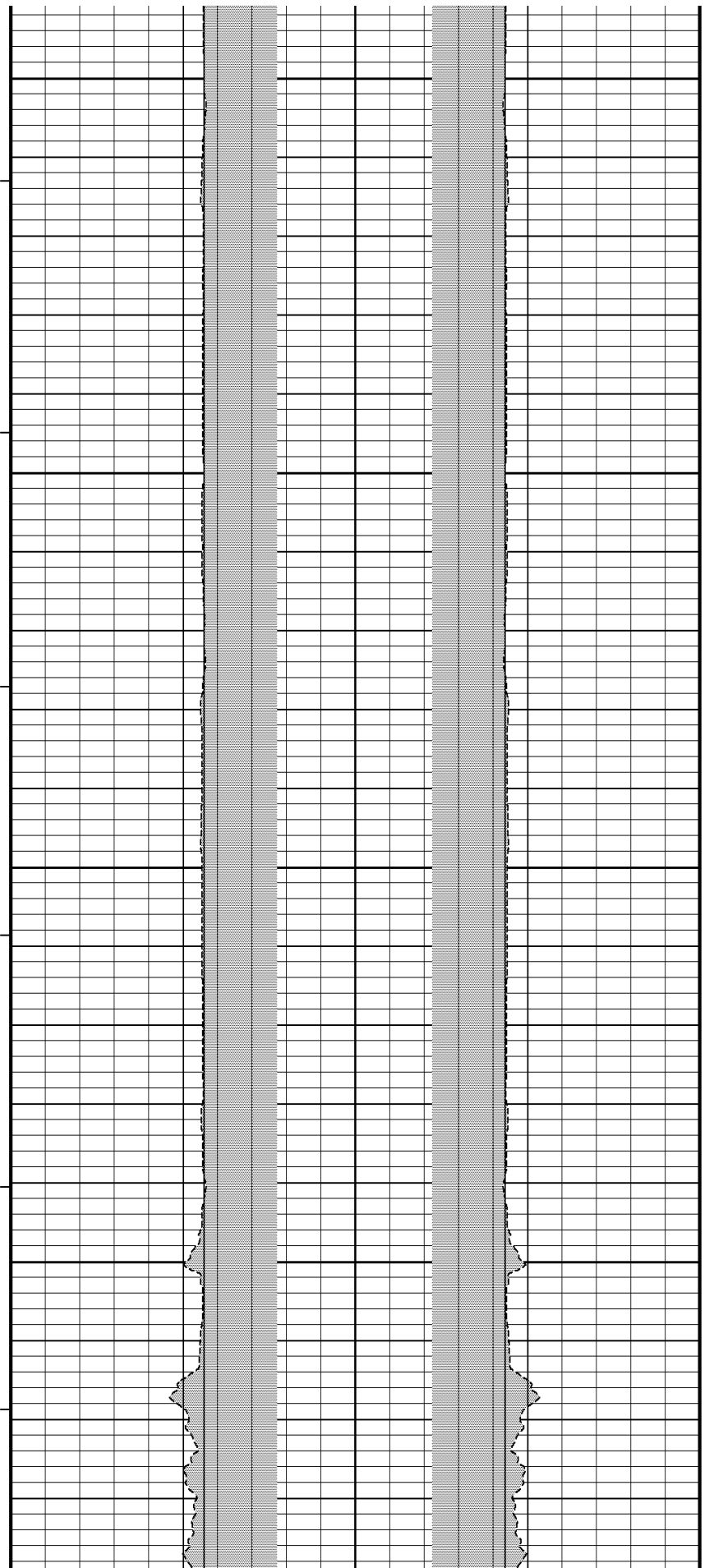
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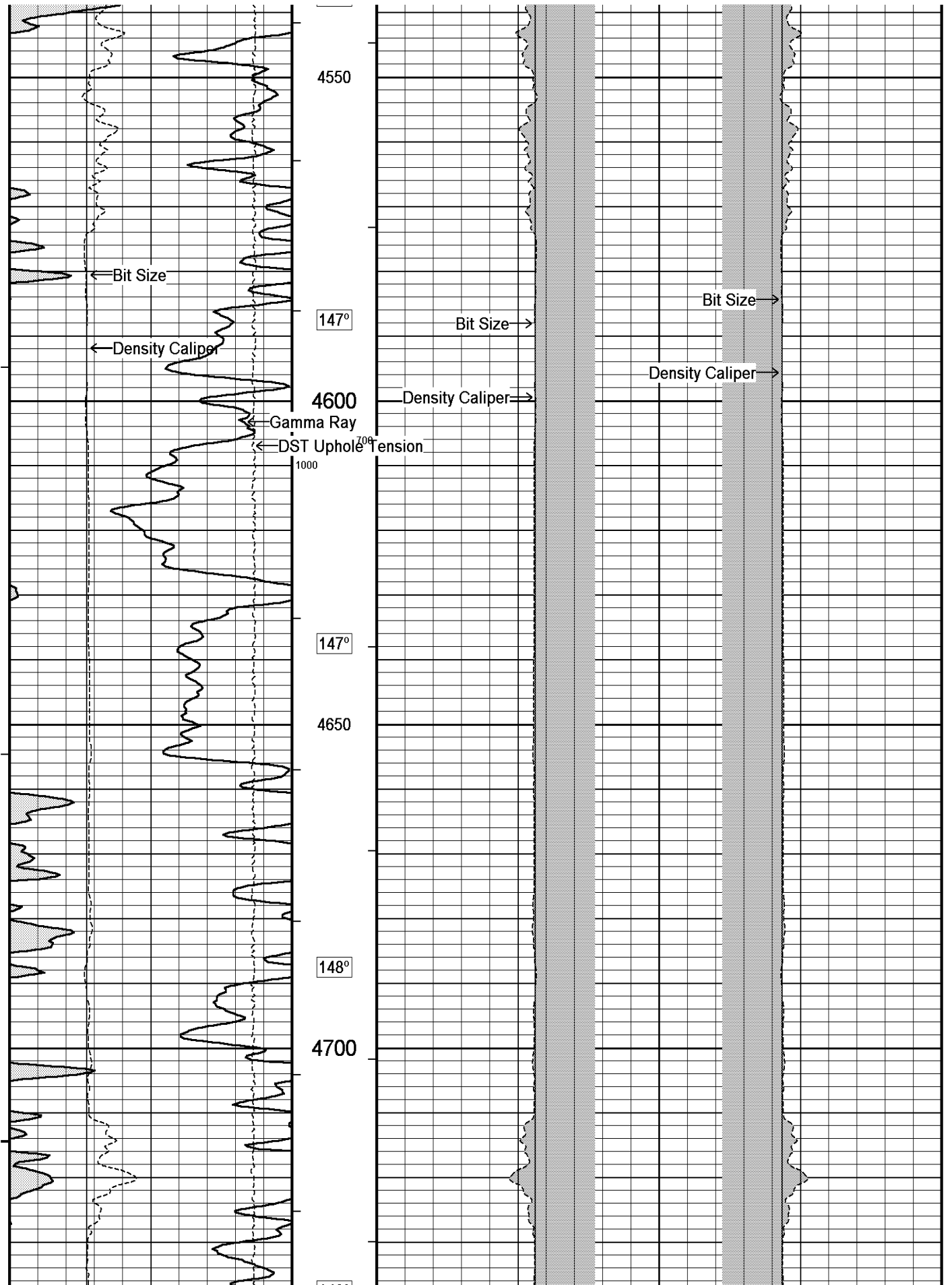
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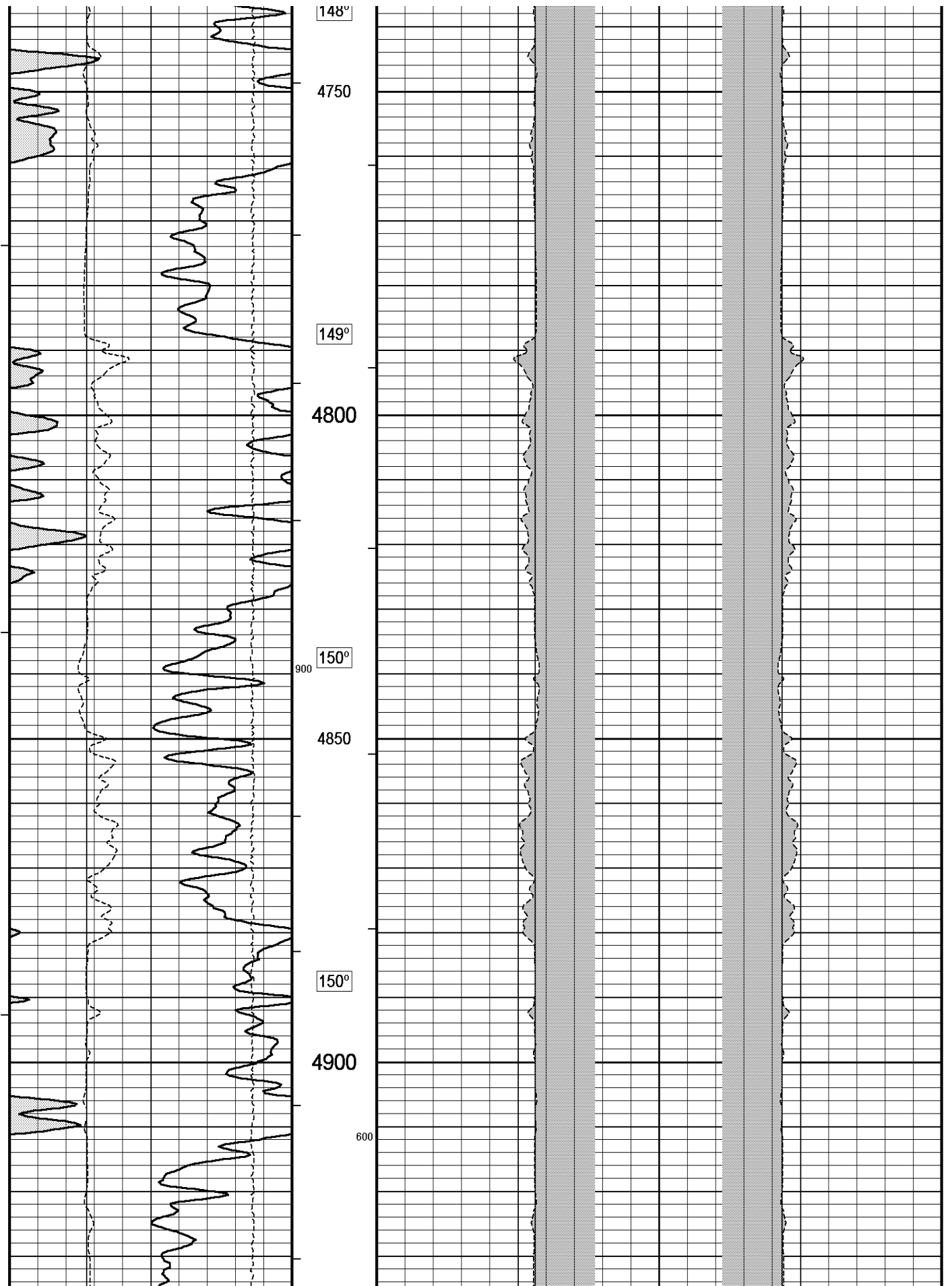
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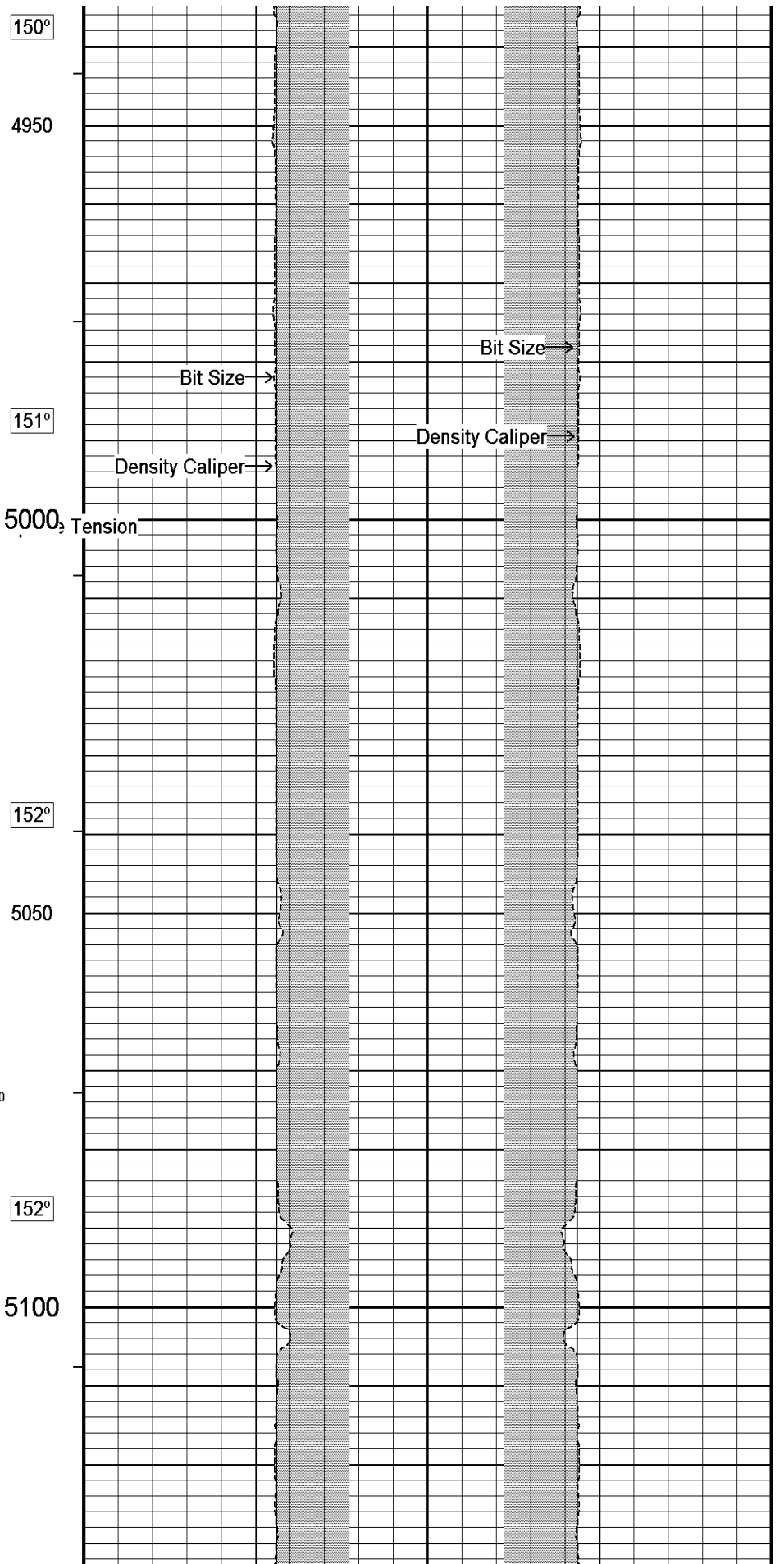
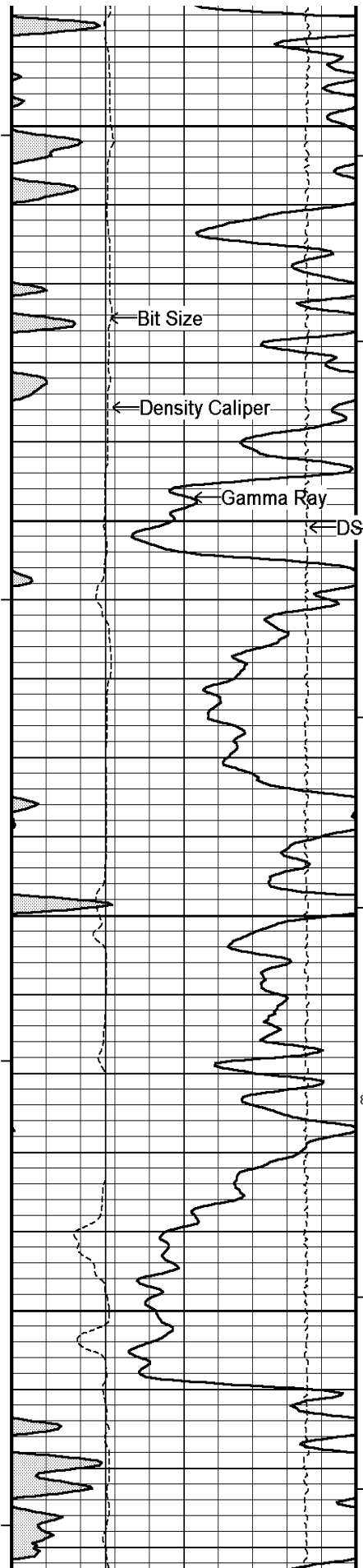
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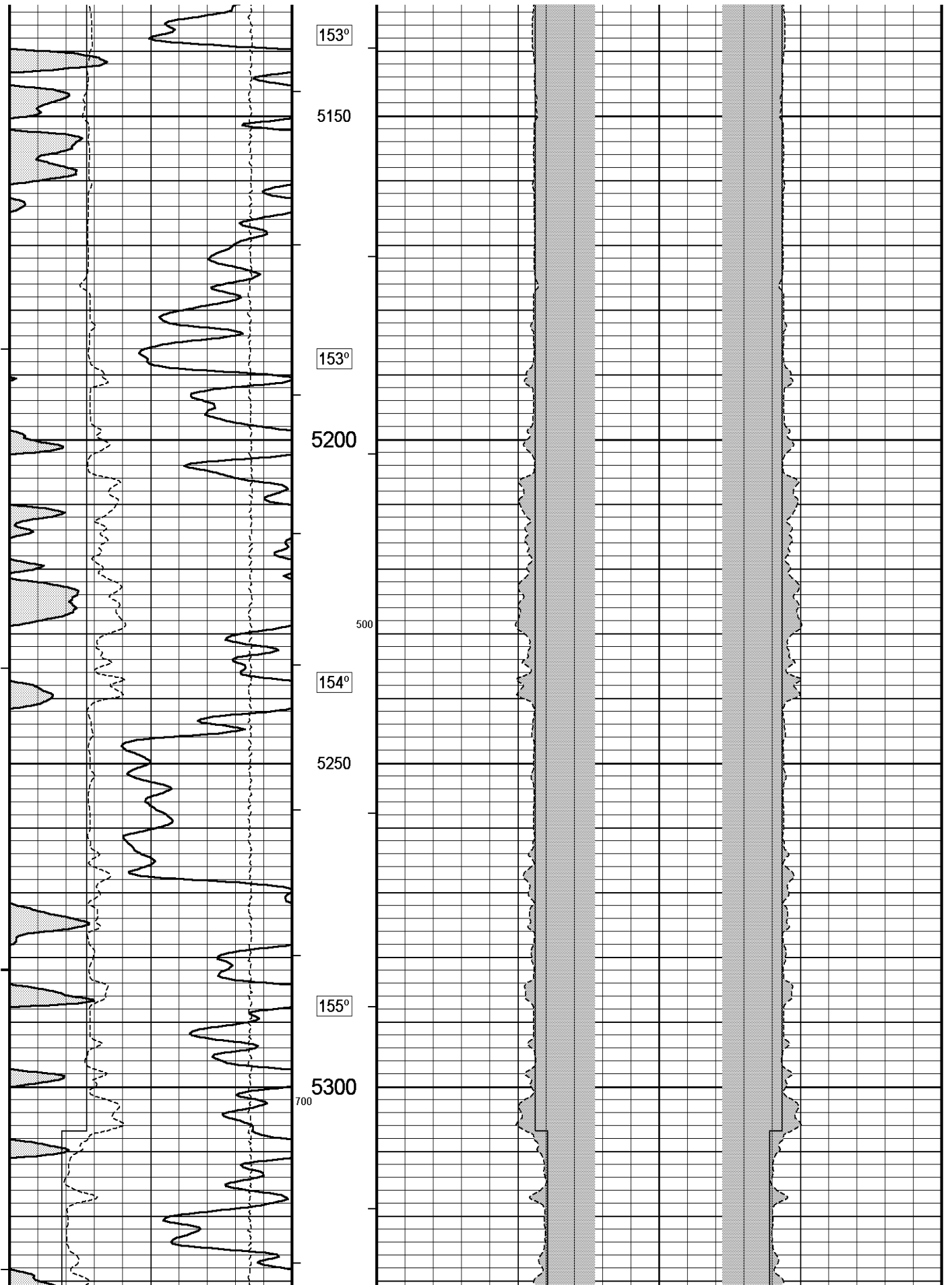
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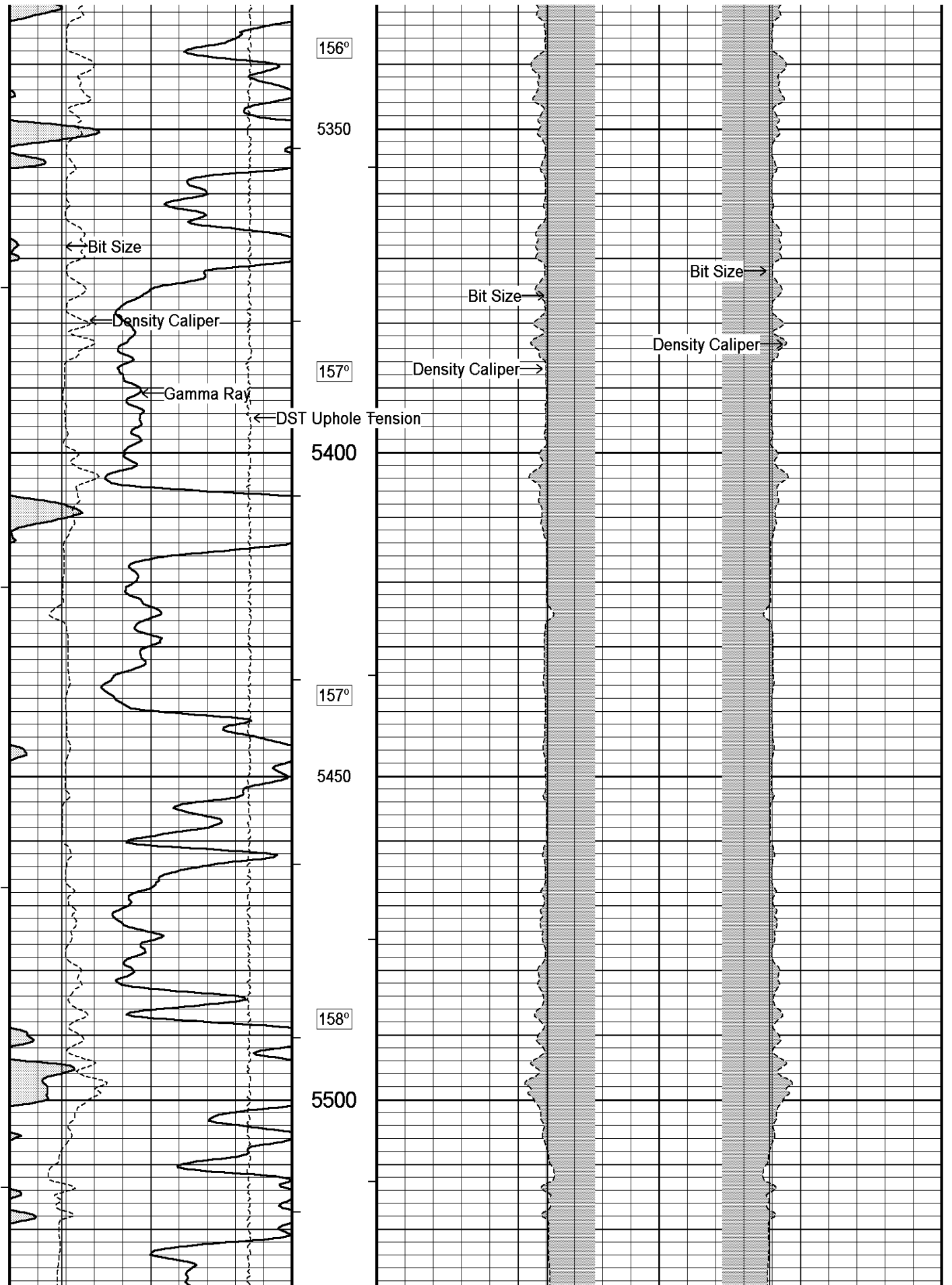


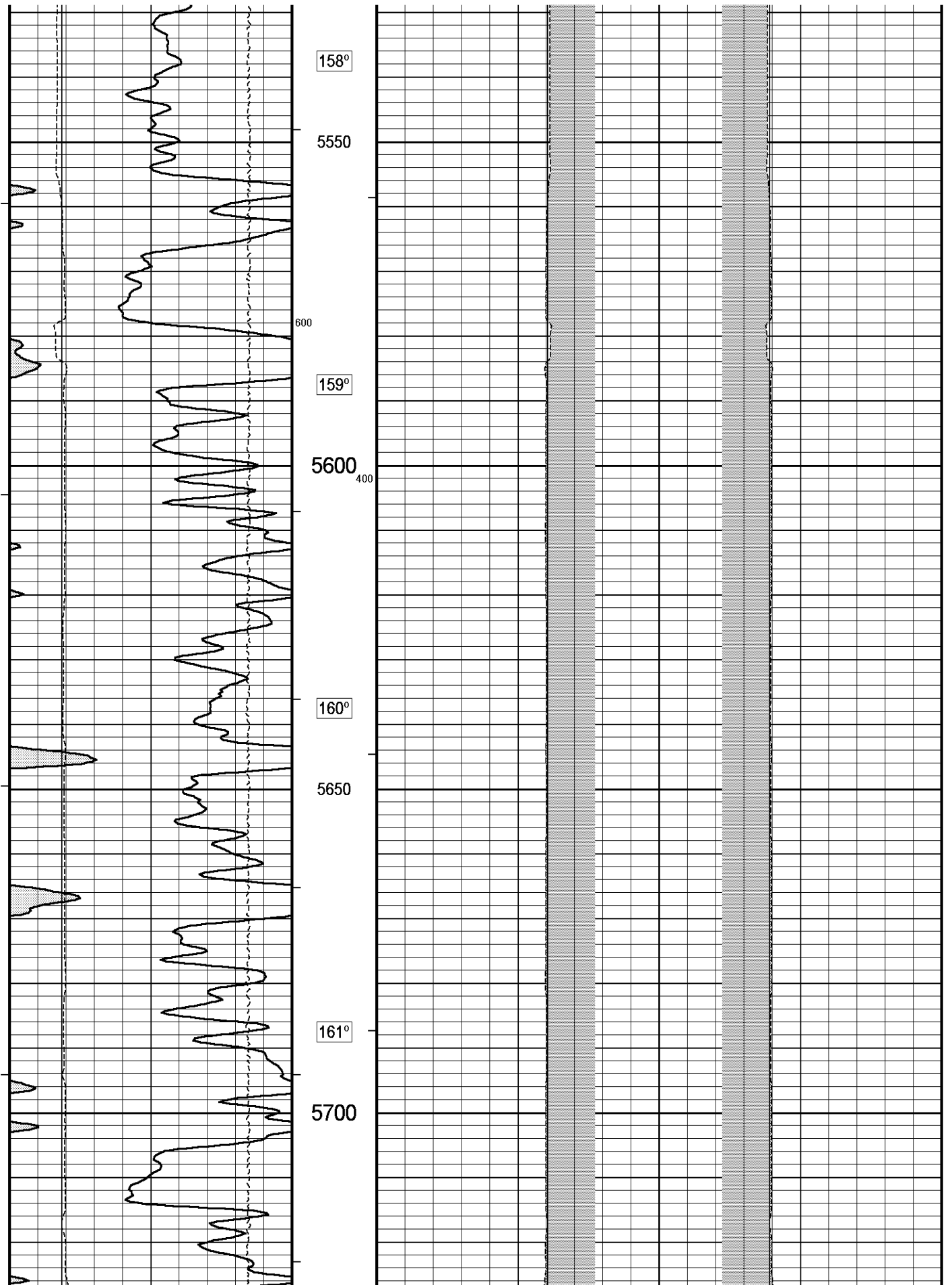


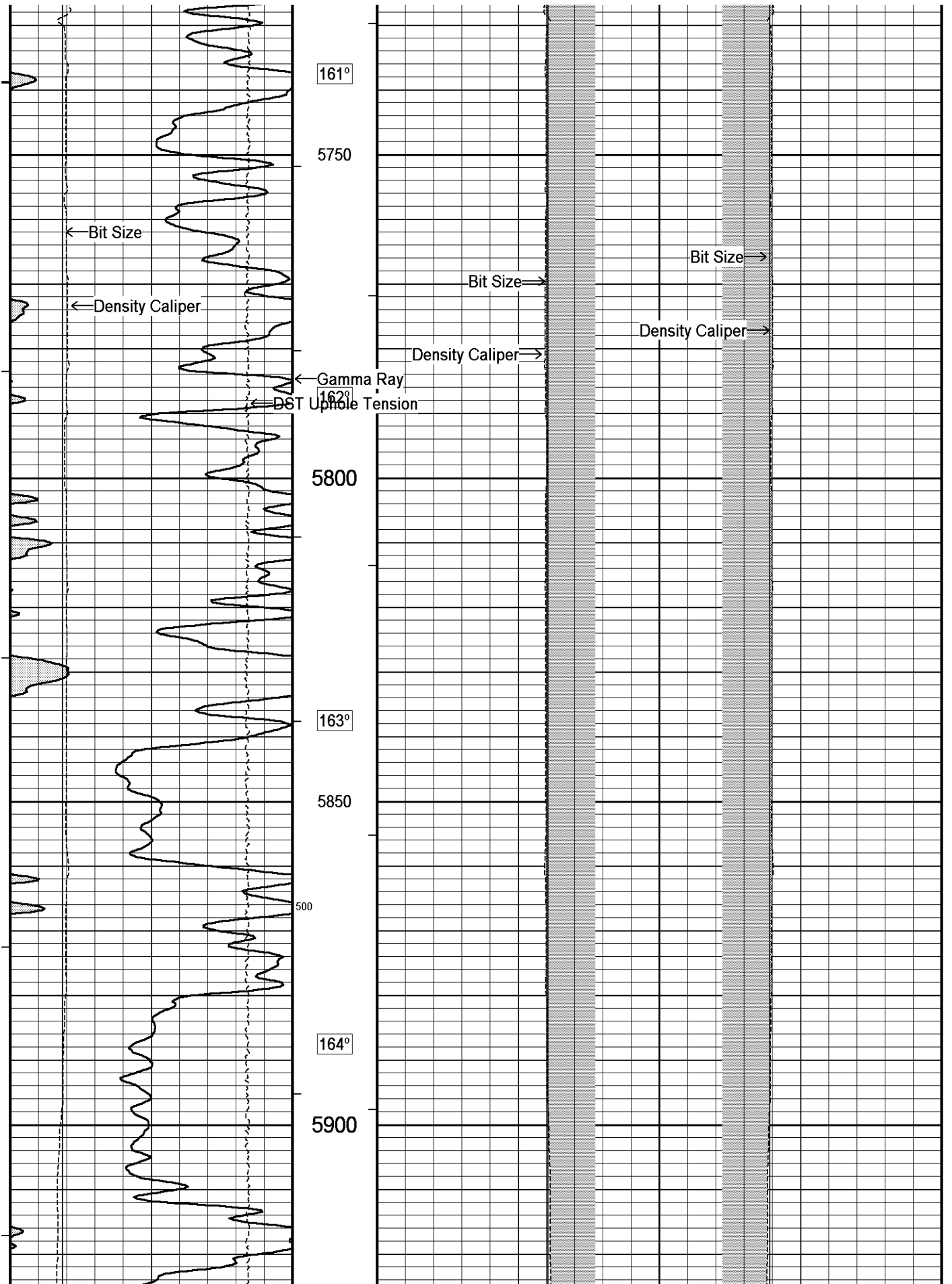


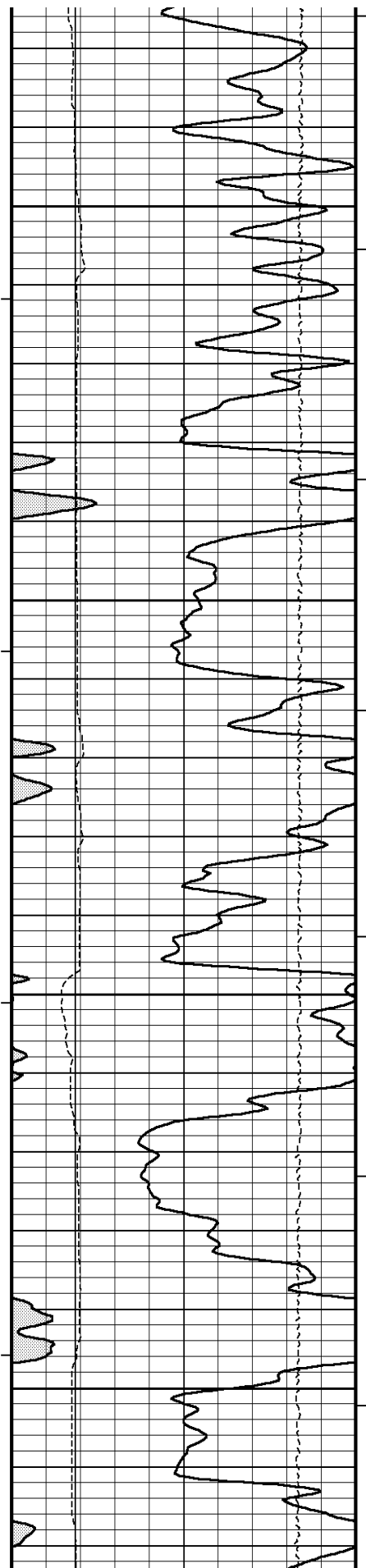












165°

5950

165°

6000

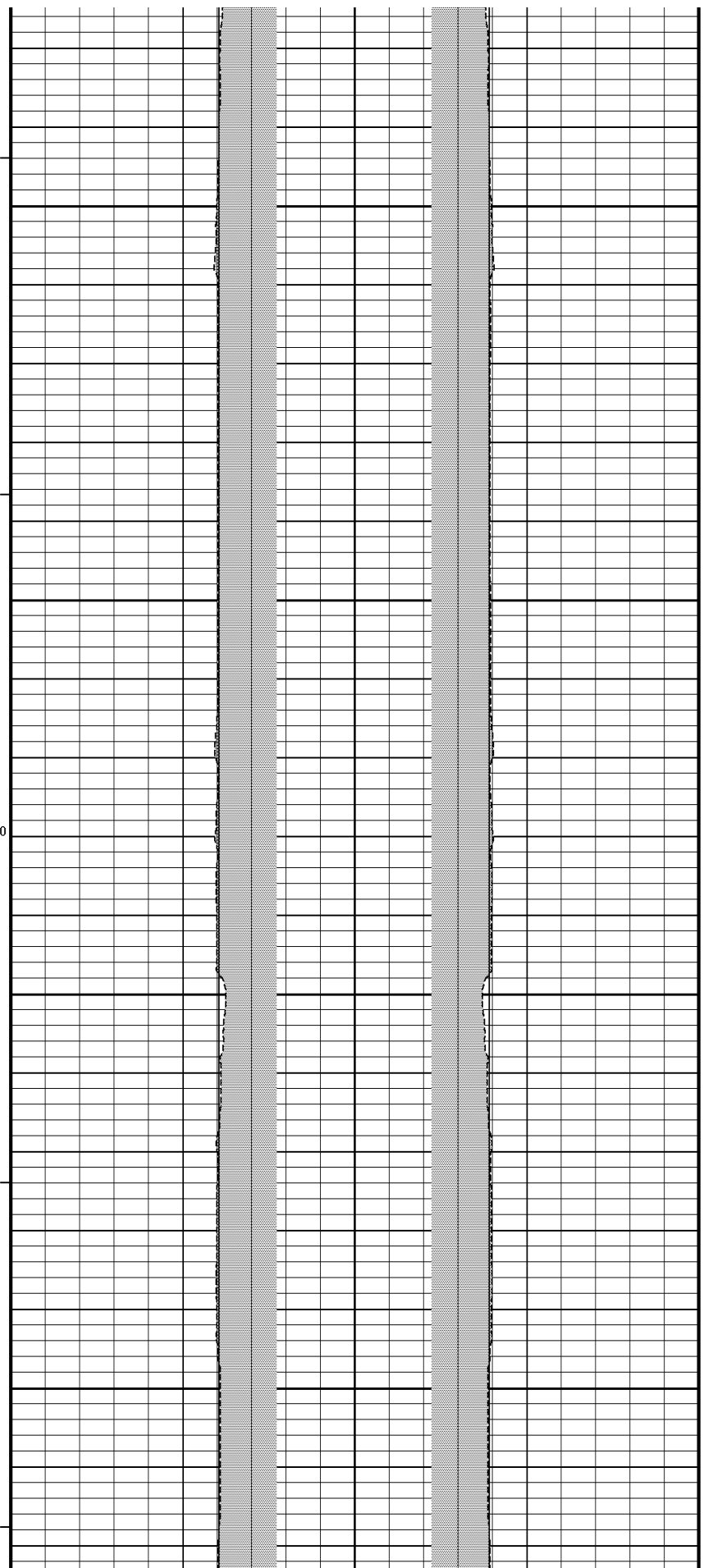
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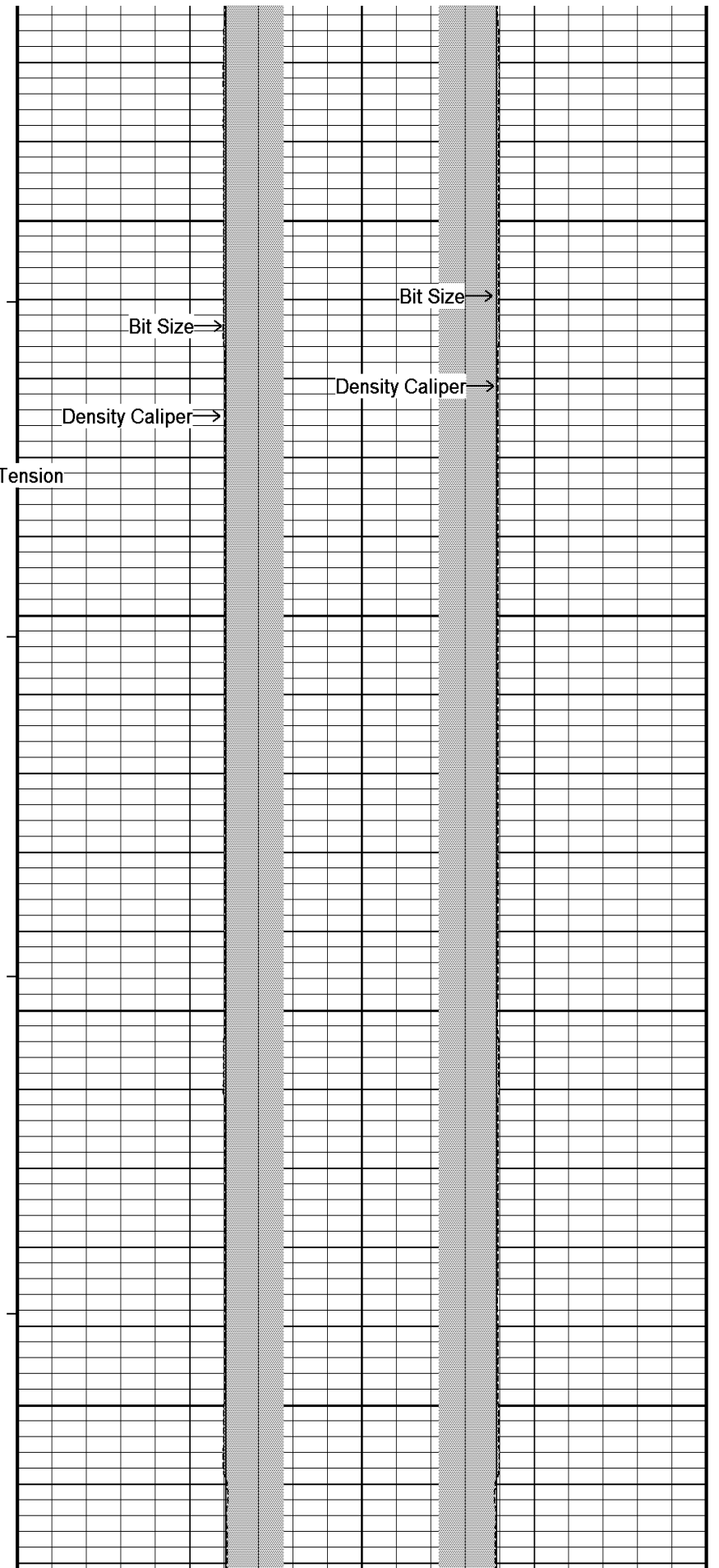
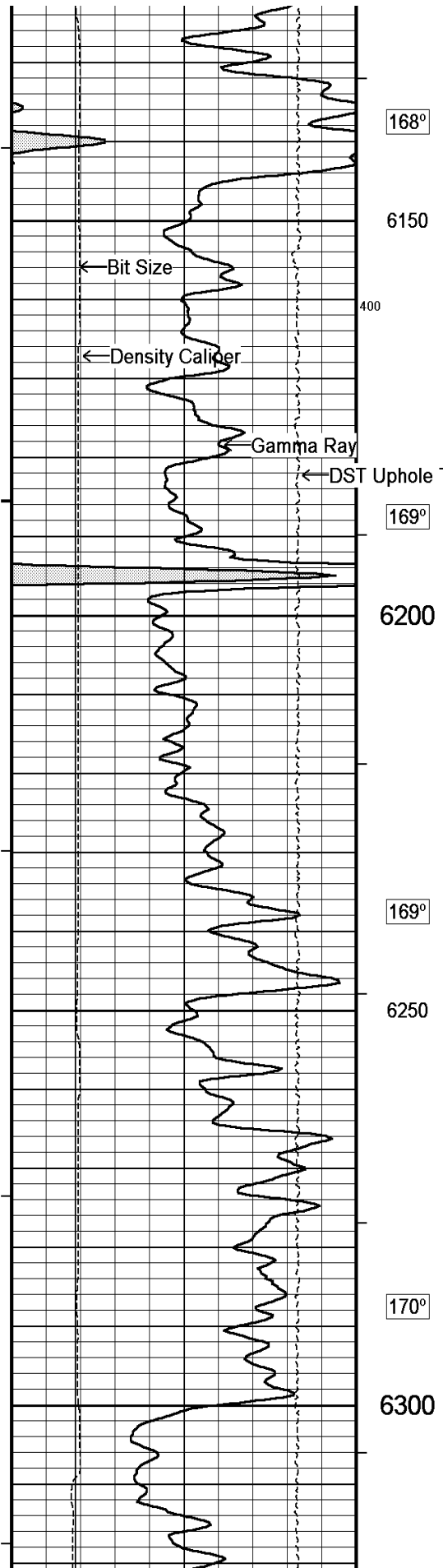
167°

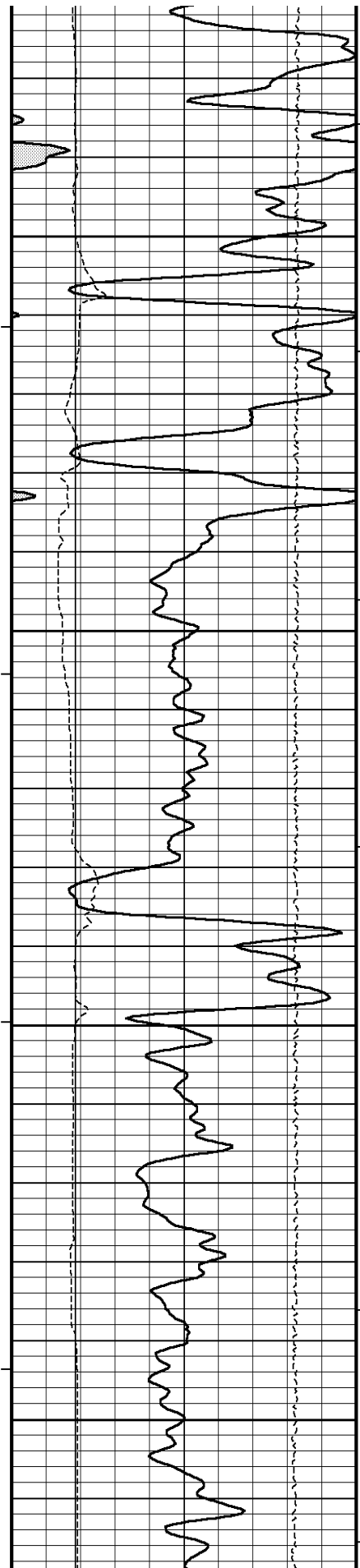
6050

168°

6100







170°

6350

171°

6400

173°

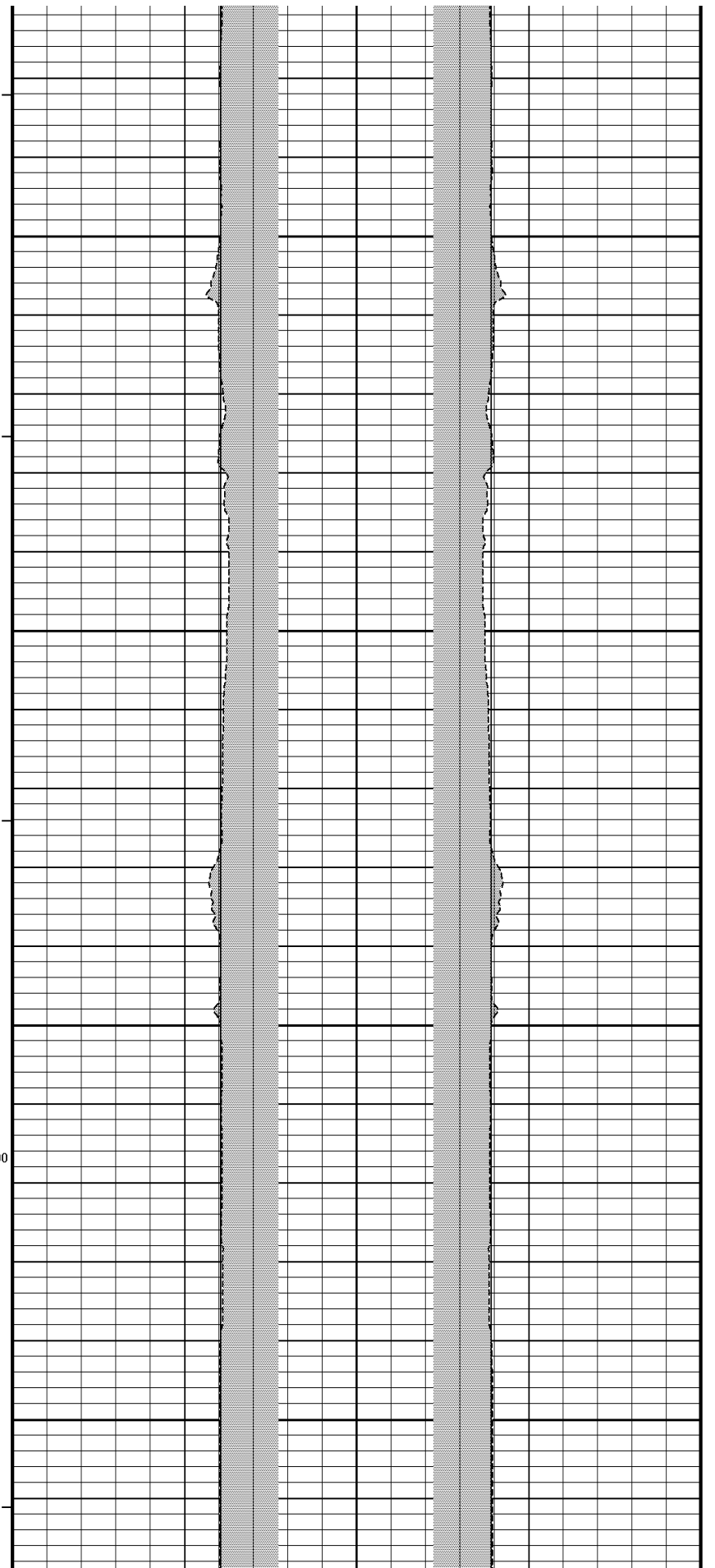
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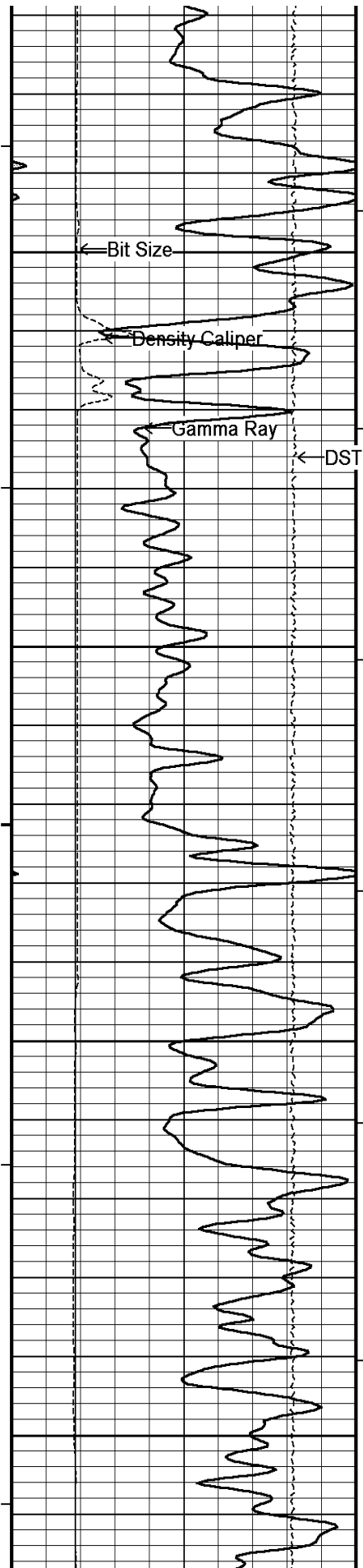
300

200

175°

6500





176°

6550

← Bit Size

← Density Caliper

← Gamma Ray

← DST Uphole Tension

177°

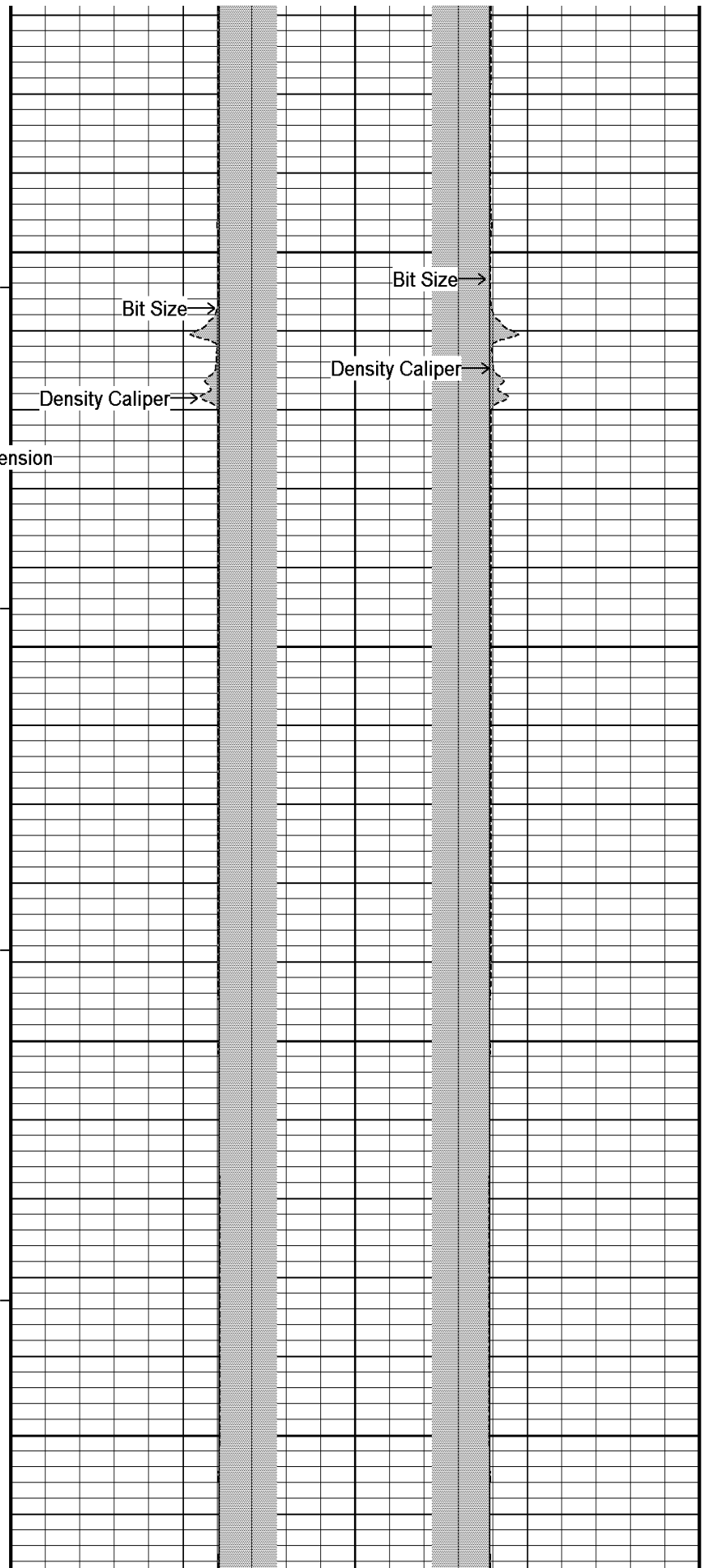
6600

178°

6650

178°

6700

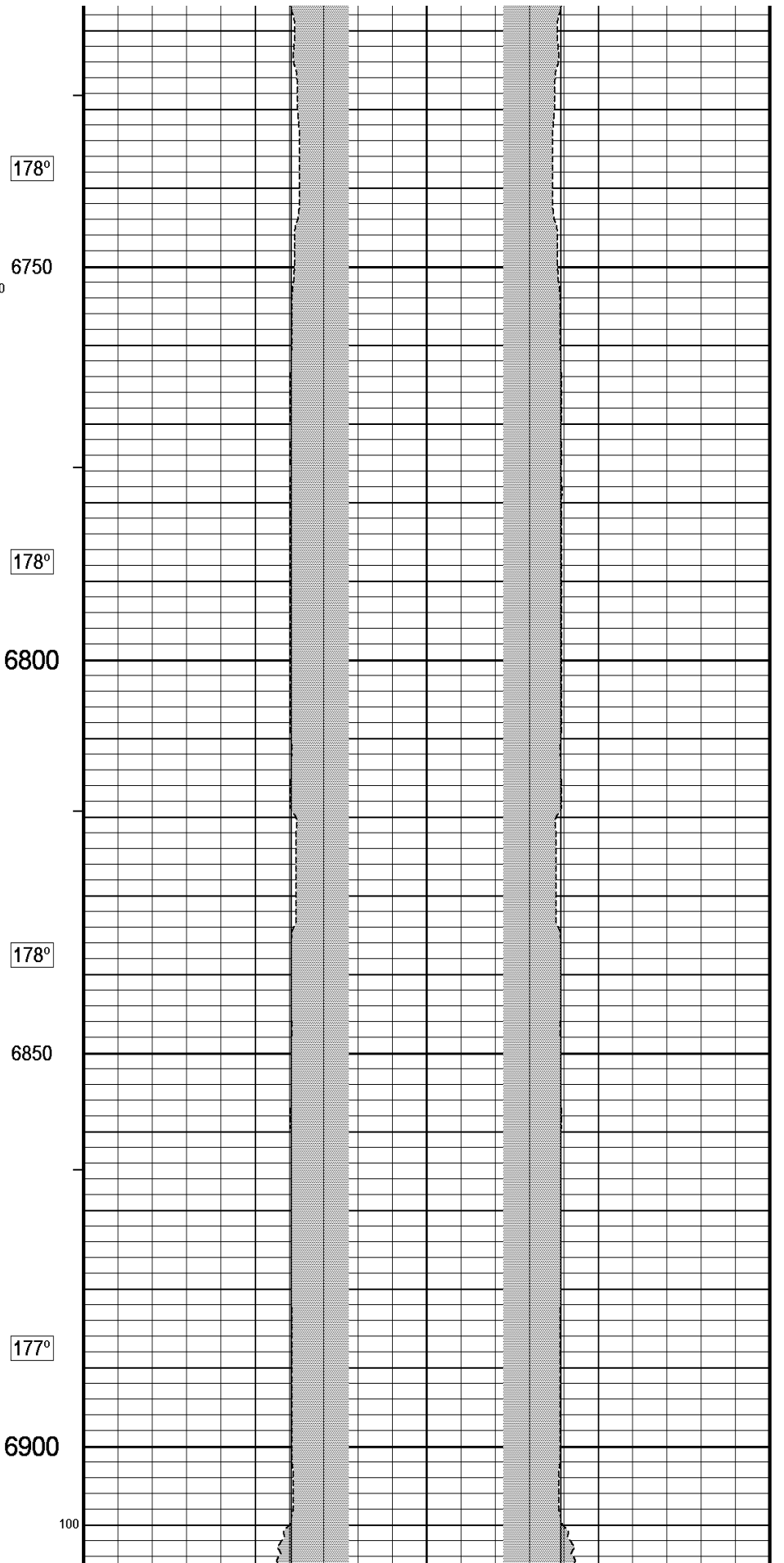
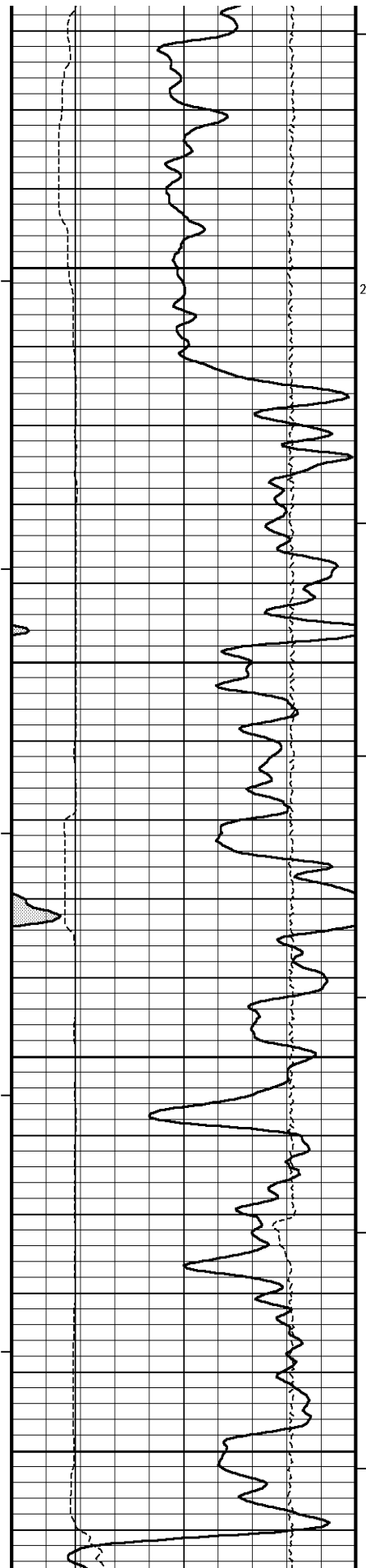


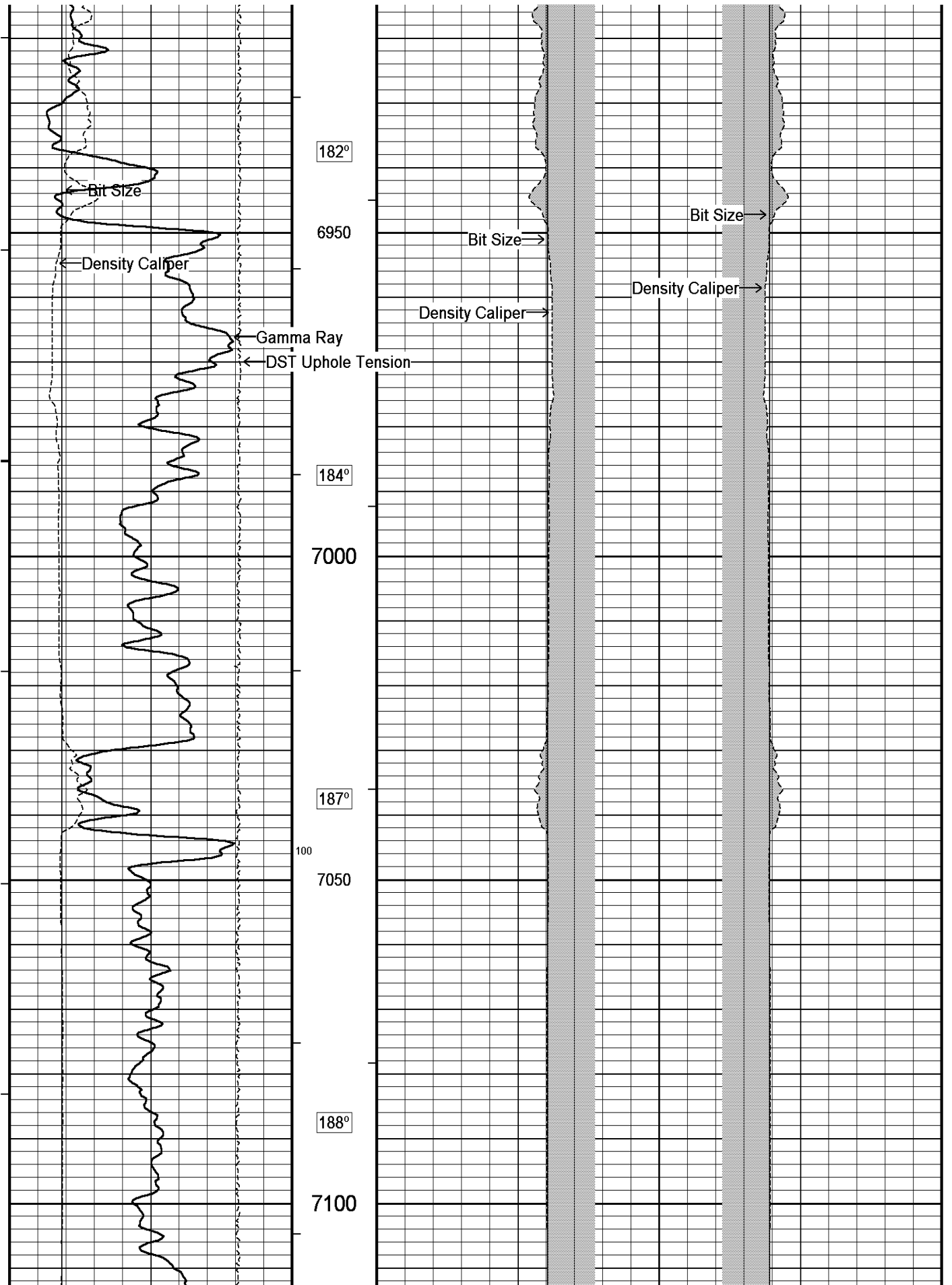
Bit Size →

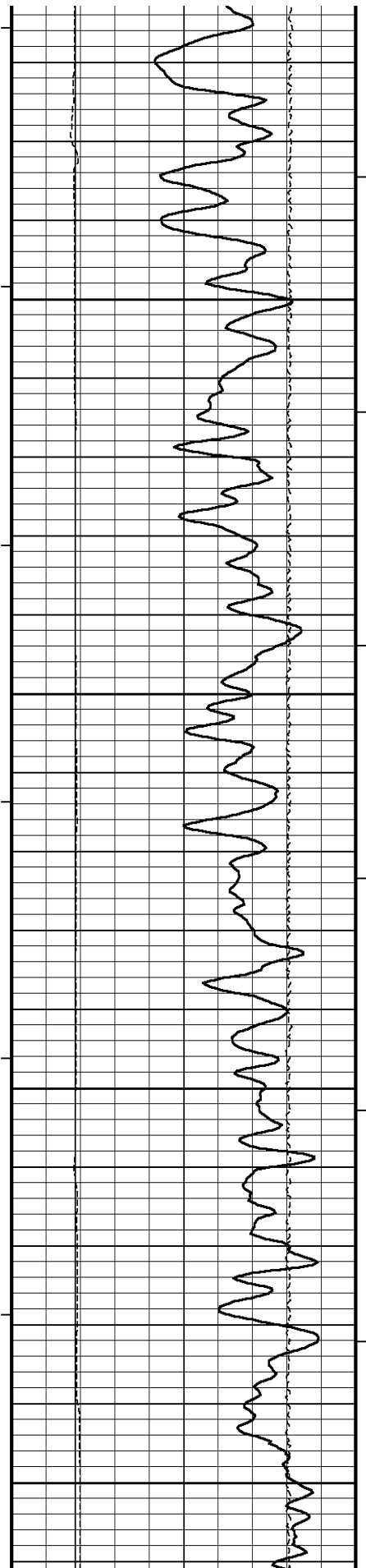
Bit Size →

Density Caliper →

Density Caliper →







188°

7150

189°

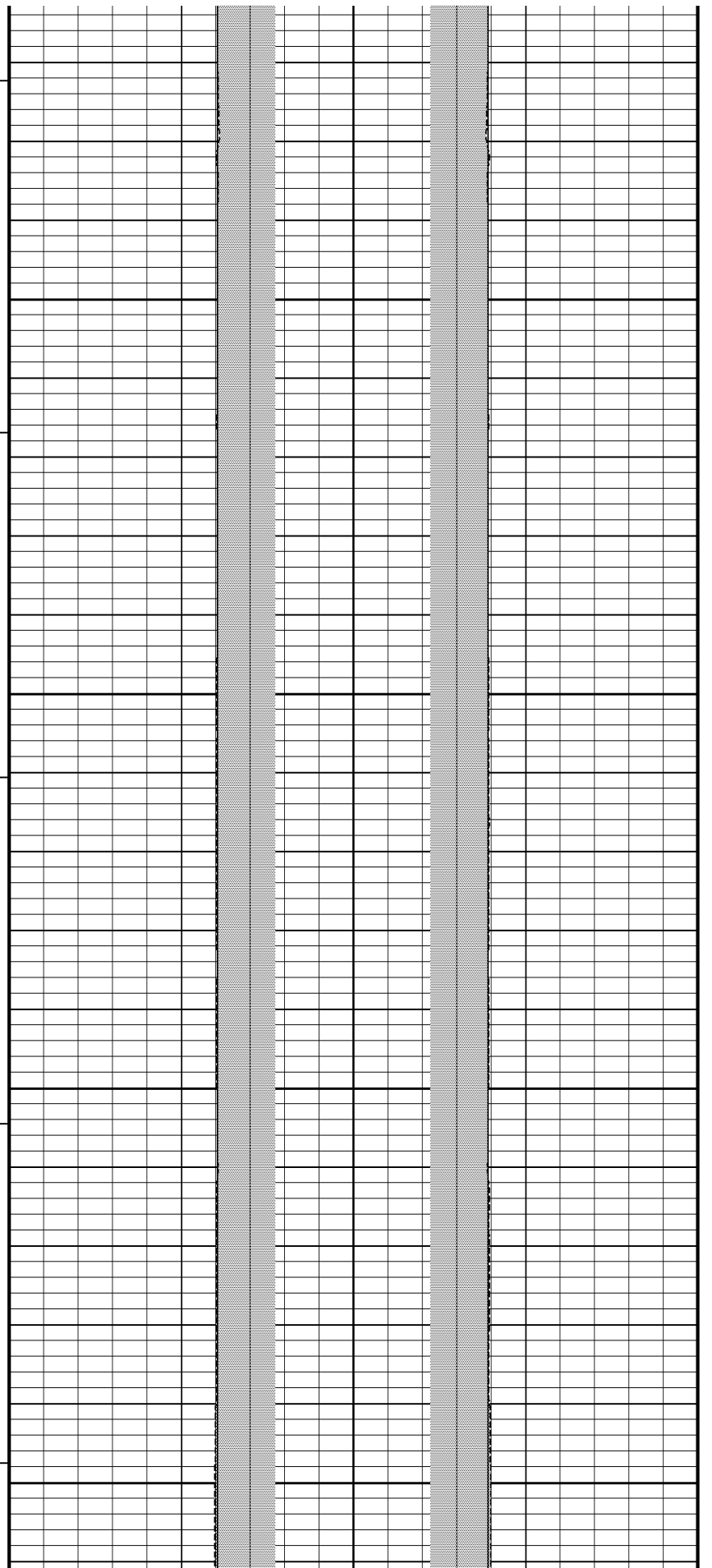
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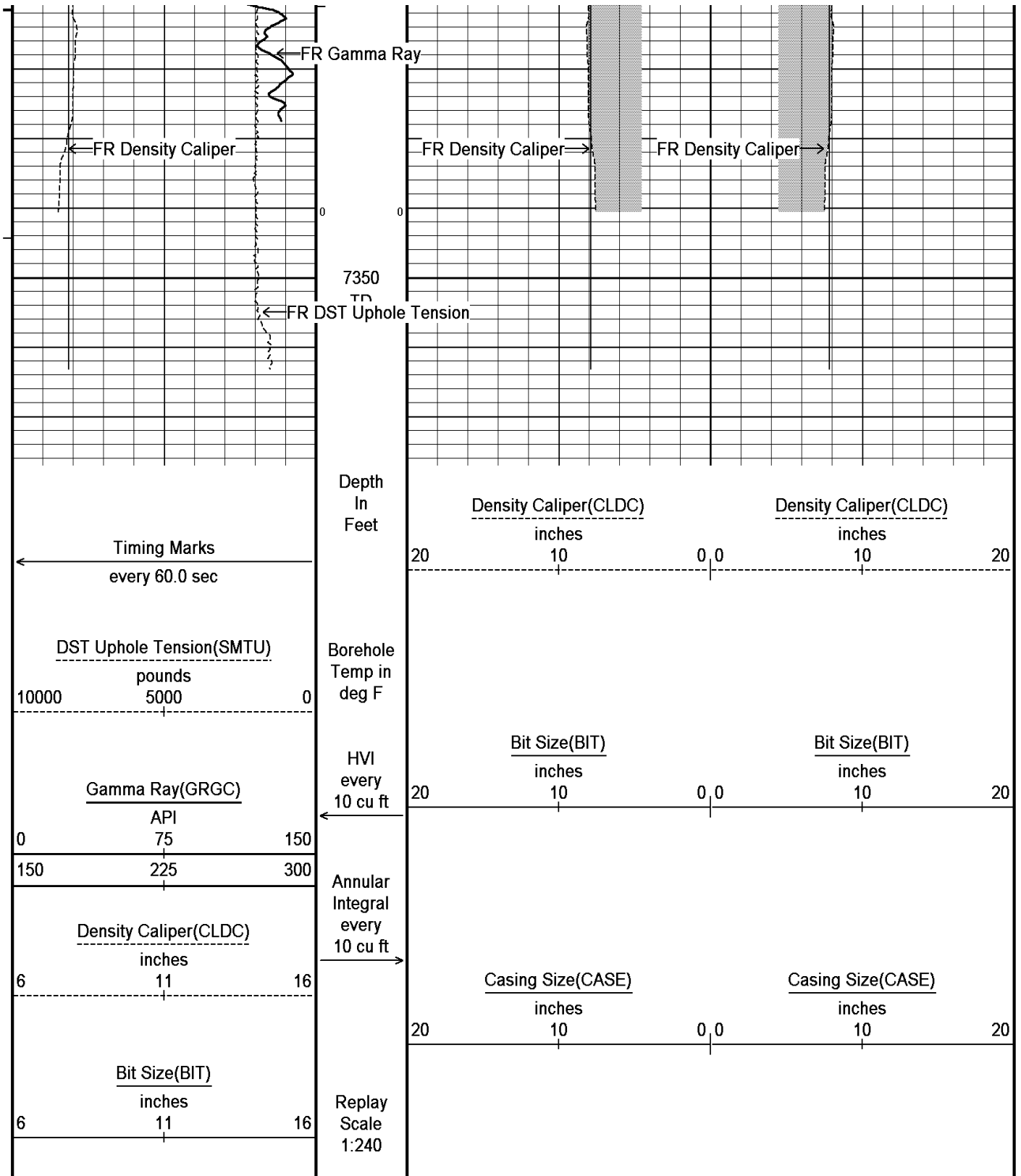
190°

7250

190°

7300





Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 11-JUN-2011 01:19

Filename: C:\Minimus\LOGS\Bill Barrett\GGU Daley 24C-19-691\MS4.dta

Recorded on 10-JUN-2011 20:08

System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186

↑ 5 INCH MAIN LOG ↑

### DOWNHOLE EQUIPMENT

C:\Minimus\LOGS\Bill Barrett\GGU Daley 24C-19-691\MS4.dta



